



REQUEST FOR PROPOSALS

Advanced Metering Infrastructure Program

RFP No. 12-18-19

PRE-PROPOSAL CONFERENCE

DECEMBER 3, 2018 AT 2:00 P.M.

ADDITIONAL INFORMATION & CLARIFICATION DEADLINE

DECEMBER 14, 2018 AT 3:30PM

RESPONSE SUBMISSION DATE AND TIME

JANUARY 4, 2019 AT 3:00 PM (LOCAL TIME)

AT

CITY OF NORTH MIAMI
OFFICE OF THE
CITY HALL, 1ST FLOOR
776 NE 125TH STREET
NORTH MIAMI, FL 33161-4116

The responsibility for submitting a response to this Solicitation at the Office of the City Clerk on or before the stated time and date will be solely and strictly the responsibility of the Respondent. The City of North Miami will in no way be responsible for delays caused by the United States mail delivery or caused by any other occurrence.

Copies of this Solicitation Document may be obtained by contacting DemandStar by Oniva at www.demandstar.com or calling toll free 1-800-711-1712 and request Document **RFP No. 12-18-19** or by visiting our website at www.northmiamifl.gov.

Contact Person: Phillip Ford
Email: purchasing@northmiamifl.gov | Phone: (305) 895-9886



The City of North Miami, Florida, hereinafter referred to as "City", is hereby soliciting Proposals from qualified and experienced Firm(s) ("Proposers" or "Respondents") to manage the design, equipment supply, pilot study, retrofitting or replacement of existing water meters, field installation, system implementation, and optimization of an Advanced Metering Infrastructure (AMI) Program to read the City's water meters in an automatic and cost effective manner as well as reduce the City's unaccounted for and non-revenue water. The AMI system includes, but is not limited to, providing and installing all components required for a complete fixed base network system with software, hardware, and all necessary training and installation support. The intent of this project is to be a multi-year, multi-phase project to ultimately retrofit or replace approximately 22,000 two inch (2") and smaller residential water meters throughout the City of North Miami, but the project also includes an initial pilot study phase provided and performed by the successful Respondent to assist in evaluating the proposed AMI system.

This REQUEST FOR PROPOSALS ("RFP") consists of two parts; a technical/qualifications component and a price component, both of which when combined constitute the Proposer's response to the RFP. Proposers submitting a response to this RFP must submit both the technical qualifications and price components. The price component is Appendix C Price Proposal / Schedule of Values.

Please submit one (1) original bound Proposal, six (6) complete copies of the original Proposal and one (1) digital compact disk (CD) or USB Flash Drive either by mail or hand delivery in response to this Solicitation. Proposals are to be submitted in a sealed envelope bearing the name of the individual and/or company, and the address as well as the number and title of this Solicitation no later than the date and time specified in the Solicitation Timetable section, where shortly after a public opening will take place in the Council Chambers located on the 2nd floor of City Hall 776 NE 125th Street North Miami, FL 33161. This Solicitation will not be based solely on price. Therefore, the sealed price component (Appendix C) will NOT be read aloud. However, properly received Proposals will be announced at the public opening. A list of Respondents shall be placed on the City's website.

Proposals received after said date and time will not be considered and no time extensions will be permitted. Address your Proposal to City of North Miami, Office of the City Clerk, 776 N E 125th Street, North Miami, Florida 33161. Please clearly mark Proposals:

"IMPORTANT SOLICITATION ENCLOSED"

Advanced Metering Infrastructure Program

RFP No. 12-18-19

The City's tentative schedule for this Solicitation is as follows:

Event	Date	Time
Advertisement Date:	November 19, 2018	12:00pm
Pre-Proposal Conference:	December 3, 2018	2:00pm
Last Date for Receipt of Written Questions:	December 14, 2018	3:30pm
Opening of Proposals:	January 4, 2019	3:00pm
City Council Contract Approval Date:	To Be Determined	
Evaluation Committee Meeting:	To Be Determined	

(The City reserves the right to delay or modify the above dates and will post notice of any changes on the Purchasing Department website and on DemandStar)

A 5% Bid Guaranty and 100% Payment and Performance Bond is a requirement of this Solicitation. Copies of this Solicitation may be obtained by contacting DemandStar via Onvia at www.demandstar.com or calling toll free 1-800-711-1712.

PRE-PROPOSAL CONFERENCE

A Pre-Proposal conference will be held on the date and time specified in the Solicitation Timetable section at City of North Miami, City Hall, 776 NE 125th Street North Miami, FL 33161-4116 to discuss the special conditions and specifications included within this Solicitation. Attendance at the Pre-Solicitation conference is encouraged, but not mandatory. Proposers are requested to bring this Solicitation document to the conference, as additional copies will not be available.

ACCEPTANCE AND REJECTIONS

The City reserves the right to reject any or all Proposals with or without cause; to waive any or all irregularities with regard to the specifications and to make the award to the Respondent offering the greatest advantage to the City. Please be advised that this Solicitation is issued subject to the City of North Miami Code Section 7-192 prohibiting certain communications with the City as completely specified in the General Conditions contained herein.

CONE OF SILENCE

Please be advised that this Solicitation is issued subject to Sections 7-192 and 7-193 of the City's Code of Ordinances, otherwise referred to as the Cone of Silence Ordinance, prohibiting certain types of communications, as further detailed in the General Conditions section of this Solicitation, while the Cone of Silence is in effect.

We look forward to your active participation in this Solicitation.

Sincerely,

Alberto Destrade,
Purchasing Director

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All of our contract forms are fill-in able and can be found on our website at:

<http://northmiamifl.gov/departments/purchasing/forms.aspx>

- A-1 Public Entity Crimes Affidavit
- A-2 Non-Collusive Proposal Certificate
- A-3 Local Preference Affidavit
- A-3(a) Subcontractor Local Preference
- A-5 Acknowledgement of Addenda
- A-6 Proposer's Disclosure of Subcontractors and Suppliers
- A-7 General Insurance Requirements
- A-9 Bid Bond
- A-10 Performance Bond
- A-11 Labor and Material Payment Bond
- A-14 References

SECTION 1.0

INSTRUCTIONS TO PROPOSERS /

GENERAL TERMS AND CONDITIONS

1.1 DEFINITIONS

- a) "City" means the City of North Miami.
- b) "Contract" or "Agreement" means a binding written agreement for the solicited Work and/or Services required by the City, including change orders and amendments, containing terms and obligations governing the relationship between the City and the Contractor.
- c) "Contractor" means the Proposer or Respondent that receives an award of Contract or Agreement from the City as a result of this Solicitation. Contractor shall be the Firm responsible to manage the design, pilot study, equipment supply, retrofitting or replacement of existing water meters, field installation, system implementation, and optimization of an Advanced Metering Infrastructure (AMI) Program to read the City's water meters in an automatic and cost effective manner as well as reduce the City's unaccounted for and non-revenue water.
- d) "Department" means a department of the City of North Miami.
- e) "Proposal" means the documents timely remitted by Proposer or Respondent, in response to this Solicitation.
- f) "Proposer" or "Respondent." All Contractors, consultants, organizations, Respondents or other entities submitting a response to this RFP.
- g) "Project" is the total sum of all Work and Services to be performed under a Contract to manage the design, pilot study, equipment supply, retrofitting or replacement of existing water meters, field installation, system implementation, and optimization of an Advanced Metering Infrastructure (AMI) Program to read the City's water meters in an automatic and cost effective manner as well as reduce the City's unaccounted for and non-revenue water as specifically delineated in the Technical Specifications under Section 3.0 and Scope of Services under Section 4.0 of this RFP.
- h) "Scope of Services" or "Scope of Work" means section 4.0 of this Solicitation, which details the Work to be performed by the Contractor in delivering the Project.
- i) "Solicitation" means this REQUEST FOR PROPOSALS (RFP) document, and all associated addenda and attachments.
- j) "Subcontractors" or "Sub-consultant" means any person, entity or organization, other than the employees of the Contractor, who contracts with the Respondent to furnish labor, services, equipment, or materials, in connection with the provision of Services to the City, whether directly or indirectly, on behalf of the Contractor.
- k) "Work" or "Services" are drawings, diagrams, schedules and other data specially prepared by the Contractor or a Subcontractor, including the construction services required for the Design and Construction of the Project solicited, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor in fulfilling its obligations to the City.

1.2 CITY OVERVIEW

The City of North Miami, Florida (with a population of over 61,000 residents) is a diverse community, ideally located midway between Miami and Fort Lauderdale and encompasses approximately 9.5 square miles. As the fifth largest City in Miami-Dade County, North Miami is committed to growth in its business community, while also focusing on

issues such as education, the arts, leisure activities and sustainability to provide a viable future for our residents and preserve the City's rich history since its incorporation in 1926.

The City currently has over 500 employees and provides a wide range of governmental services including public safety / police services, parks and recreation, public works, water and sewer, planning, building and zoning, code enforcement, and community development to its citizens.

The City is a very large consumer of goods and services and the purchasing decisions of our employees and awarded vendors can positively or negatively affect the environment. By including environmental considerations in our procurement decisions, along with our goal of identifying the most cost effective and competitive pricing, we strive to remain fiscally responsible while promoting practices that improve public health and safety, reduce pollution, and conserve natural resources.

1.3 INVITATION

This invitation is extended to Respondents that can provide the requirement(s) specified herein. The requirements presented in this Solicitation represent the City's anticipated needs.

1.4 PUBLIC ENTITY CRIMES AFFIDAVIT

The *Public Entity Crime Affidavit*, (**Form "A-1"**) attached to this Solicitation, includes documentation that shall be executed by an individual authorized to bind the Respondent. If the *Public Entity Crime Affidavit* is not submitted as part of the Respondent's Proposal package, is altered in any manner or is not fully completed, the Respondent shall be deemed non-responsive to the Solicitation requirements.

1.5 PUBLIC ENTITY CRIME / DISCRIMINATORY RESPONDENT LIST

Any Respondent, or any of its suppliers, Subcontractors, or consultants who shall perform Work which is intended to benefit the City, shall not be a convicted Respondent or included on the discriminatory Respondent list. If the Respondent or any affiliate of the Respondent has been convicted of a public entity crime or has been placed on the discriminatory Respondent list, a period longer than 36 months must have passed since that person was placed on the convicted Respondent or discriminatory Respondent list. The Respondent further understands and accepts that any Contract issued as a result of this Solicitation shall be either voidable or subject to immediate termination by the City. The City in the event in such termination, shall not incur any liability to the Respondent for any Work or materials furnished.

1.6 LOBBYING

All Respondents, their agents and sub-consultants or sub-contractors, are hereby placed on notice that neither the City Council Members, any Evaluation Committee member, employees of the City or employees of any other sponsoring agency shall be lobbied either individually or collectively regarding this Solicitation. Respondents and their agents, sub-consultants or sub-contractors are hereby placed on notice that they are prohibited from contacting any of these individuals for any purpose relating to this Solicitation. Any Proposal submitted by a Respondent, its agents, sub-consultants or sub-contractors who violate these guidelines will not be considered for review. The Purchasing Department shall be the only point of contact for questions and/or

clarifications concerning this Solicitation, the selection process and the negotiation and award procedures.

1.7 SUSPENSION OF AWARDED VENDORS FOR MATERIAL BREACH OF CITY CONTRACTS

Pursuant to Sec 7-160 of the City's Procurement Code, the City may temporarily or permanently suspend an Awarded Vendor from doing business with the City whenever said vendor materially breaches its Contract with the City, upon recommendation by the Purchasing Director. Any Proposal submitted by a Respondent, its sub-contractors, sub-consultants, or vendors who are included on the City's "Suspension List" shall not be considered for review.

In addition, the principals of any Respondent or its sub-contractors, sub-consultants, or vendors who are included on the City's "Suspension List" shall not attempt to do business with the City under a different name or form a new legal entity in order to do business with the City while they remain on said list. In the event of any intentional misrepresentation, the Respondent further understands and accepts that any Contract issued as a result of this Solicitation shall be subject to immediate termination for default and suspension procedures by the City. The City, in the event of such termination, shall not incur any liability to the Respondent for any work or material furnished.

1.8 POINTS OF CONTACT TIMETABLE FOR INQUIRES

Interested firms may contact the City's Purchasing Department regarding any general questions. However, questions relating to technical inquiries and/or clarification of specific criteria must be submitted to the Purchasing Department in writing, preferably via e-mail, to the address indicated on the cover page.

Technical questions or inquiries regarding clarification of criteria will not be entertained beyond the cut-off date indicated on the Solicitation Timetable, in order for the City to be able to provide answers to submitted questions on a timely basis. The City shall provide answers in the form of written addenda to be posted on the City's web site (www.northmiamifl.gov) and DemandStar by Onvia at www.demandstar.com or by calling toll free 1-800-711-1712 and requesting the corresponding document number.

1.9 ORAL REPRESENTATION

No oral representation made by the City staff shall be binding. The contents of this RFP and any subsequent addenda issued by the City shall govern all aspects of this Solicitation.

1.10 ADDENDA

If any revision to this Solicitation becomes necessary, the City will post written addenda on the City website at (www.northmiamifl.gov) and on Demand Star by Onvia at www.demandstar.com at least seven (7) calendar days before the date scheduled for opening the responses. However, please be advised that the City may revise the deadline for response submittal at any time prior to the date and time scheduled for opening the responses. **It is the responsibility of each Respondent to inquire and confirm whether any addenda has been issued by the City before the Solicitation deadline by either calling or checking the City's website (www.northmiamifl.gov) and Demand Star and by Onvia at www.demandstar.com or calling toll free 1-800-711-1712 and requesting the corresponding document number, prior to submittal of their Proposal. All addenda placed on the Demand Star can be down loaded.**

1.11 CANCELLATION OF THE SOLICITATION

The City reserves the right to cancel this Solicitation and/or re-advertise and re-solicit the requirements at any time when determined to be in the best interest of the city.

1.12 PROTEST

If a potential Respondent protests any provisions of the REQUEST FOR PROPOSALS documents, a written protest must be filed with the City Clerk within five (5) business days (excluding weekends and City observed holidays) prior to date set for opening of the Proposals. A written protest is considered filed when received by the City Clerk.

Any Proposer who files a formal written protest pursuant to Section 7-158, City Code, shall post with the city at the time of filing the formal written protest with the city at the time of filing the formal written protest a filing fee in an amount equal to one percent (1%) of the amount of the bid or proposed Contract, or one thousand dollars (\$1,000), whichever is less. Failure to file a notice of protest within the time prescribed in Section 7-158, City Code, or failure to post the filing fee within the time allowed, shall constitute a waiver of such Proposer's right to file a protest.

Notice of written protest along with the filing fee, shall be timely filed with the City Clerk of the City North Miami at 776 NE 125th Street, 1st Floor North Miami, FL 33161. The City will not accept receipt of any formal written protests filed at any location other than the City's Clerk's Office.

1.13 CONTRACT

Proposers must understand that neither this Solicitation nor the responses submitted pursuant thereto shall not constitute a contract with the City. No contract is binding or official until responses are reviewed and accepted by appointed City staff, approved by the appropriate level of authority within the City and an official contract is duly executed by the parties. The selected Respondent shall be required to sign a Contract which the City determines to be fair, competitive and reasonable.

1.14 PROPOSAL COST

Neither the City and nor its representatives shall be liable for any expenses incurred in connection with the preparation, submittal, or presentation of a response to this Solicitation. All information in the response shall be provided at no cost to the City.

1.15 TAX EXEMPT STATUS

The City is exempt from Florida Sales and Federal Excise taxes on direct purchase of tangible property.

1.16 SUBMITTAL AND OPENING OF PROPOSALS

All responses shall be submitted in a sealed envelope by the deadline indicated on the cover page of this Solicitation. The response shall identify the Solicitation number and title specified on the cover page of this Solicitation. Reference information shall also be marked on the outside of the sealed envelope, including the Respondent's return address. The City assumes no responsibility for responses not properly marked.

The City will not accept responses delivered after the established deadline. If the response is delivered after the established deadline, a Respondent shall be deemed non-responsive to the Solicitation requirements.

Receipts of a response by any City office, receptionist or personal other than the Clerk's Office will not constitute "delivery" as required by this Solicitation. The City will not accept or consider responses submitted via facsimile transmission. The public is welcome to attend the Solicitation opening.

1.17 ASSIGNMENT OF RESPONSE

A Respondent shall not transfer or assign its response to a third party following submittal of a Proposal to the City.

1.18 WITHDRAWAL OF RESPONSE

Respondents shall withdraw their submitted Proposal by notifying the City either in writing or in person through an authorized representative at any time prior to the submittal deadline. Individuals making the withdrawal shall provide evidence of serving as an authorized representative of the Respondent. Once Proposals are submitted, they become the property of the City and will not be returned to Respondents even when they are withdrawn from consideration.

Proposals may not be withdrawn or modified once the City has opened them after the Submittal Deadline has passed, except for any request from the City for clarifying information or request for documents during Contract negotiations.

1.19 PUBLIC RECORDS AND EXEMPTIONS

Please be advised that Proposals received by the City become "public records" and shall be subject to public disclosure consistent with Chapter 119, Florida Statutes. Respondents must invoke the exemptions to public records disclosure provided by law, if any, by citing the specific statutory authority for the claimed exemption, identifying the data or other materials to be protected, and stating the reasons why such exclusion from public disclosure is necessary. All Proposals shall be available for public inspection once the City posts notice of an intended decision or thirty (30) days after the opening of Proposals, whichever is earlier.

1.20 REJECTION OF RESPONSES

Pursuant to Section 7-136, City Code, the City reserves the right to reject any and all Proposals for reasons including, but not limited to, the following:

- a) When such rejection is in the interests of the City;
- b) If such Proposal is deemed non-responsive;
- c) If the Respondent is deemed non-responsible; or
- d) If the Proposal contains any materials irregularities.

Minor irregularities contained in a Proposal may be waived by the City. A minor irregularity is a variation from the Solicitation that does not affect the price of the Contract nor does it give a Respondent an advantage or benefit not enjoyed by other Respondents and does not adversely impact the City.

1.21 PROPOSAL EVALUATION AND COMMITTEE INTERVIEWS

An Evaluation Committee shall be assembled in accordance with the guidelines found in the City's Procurement Code. The Committee shall be convened for the purpose of reviewing and evaluating the Proposals submitted in response to this Solicitation pursuant to the criteria outlined under Section 5.0 of the Solicitation. The Committee may choose to recommend the highest ranked Respondent for award by the City Council,

based solely on their review and evaluation of Proposals, or the Committee may instead choose to interview one or more Respondents before making their final determination.

In the event that the Committee chooses to interview one or more Respondents, the final ranking for each Respondent shall be based on the Committee's final evaluation following their interview of the selected firms. The Committee's final results and recommendation for award shall be submitted for review and approval by the City Manager and for subsequent award by the City Council.

1.22 REVIEW OF PROPOSAL FOR RESPONSIVENESS

Each Proposal will be reviewed to determine if the Proposal is responsive to the submission requirements outlined in the RFP. A responsive Proposal is one which follows the requirements of this RFP, includes all requisite documentation, is submitted in a timely manner, and has the appropriate signature as required on each document. **Failure to comply with these requirements may result in a Proposal being deemed non-responsive.**

1.23 CITY MANAGER'S REVIEW

The Purchasing Department shall submit the results and recommendation of the Evaluation Committee to the City Manager for review. Upon receipt, the City Manager may proceed as follows:

- a) Approve the Committee's recommendation and submit to City Council for approval;
- b) Reject the Committee's recommendation and direct the Committee to re-evaluate and make further recommendation; or
- c) Reject all Proposals.

1.24 CITY COUNCIL REVIEW

Upon receipt of the City Manager's recommendation, the City Council may:

- a) Approve the City Manager's recommendation and authorize the contract or contract negotiations;
- b) Reject all Proposals; or
- c) Reject all Proposals and direct staff to re-issue a new Solicitation.

1.25 CONTRACT AWARD

The City anticipates the award of one Contract, but reserves the right not to make any award whatsoever, if determined to be in the interest of the City.

Prior to Contract award, the Respondent(s) shall submit documentation reflecting any required insurance coverage. The Contract number shall be included on the insurance documentation submitted to the City at the time of award execution and for all subsequent updates to the insurance coverage throughout the Contract period. Failure to execute the Contract and/or to provide evidence of any required insurance coverage shall be just cause for the termination of the award.

1.26 PROPOSAL SUBMITTAL/ADDENDUMS

All Proposals submitted shall include the completed Proposal Forms and all required product information and any other items as indicated on the Proposal Form. Proposals will be considered "Non-Responsive" if the required information is not submitted by the date and time specified.

Before submitting a Proposal, each Respondent shall make all investigations and examinations necessary to ascertain if any addendums were issued by the Purchasing Agent.

1.27 NON-RESPONSIVE PROPOSALS

Proposals deemed to be Non-Responsive by the City shall not be considered for this Solicitation. A Proposal may be deemed Non-Responsive for various reasons including, but not limited to, failure to comply with the requirements of this Solicitation, failure to submit or fully complete prescribed forms, conditional responses, incomplete responses, indefinite or ambiguous responses, failure to meet deadlines and improper and/or undated signatures.

Other conditions which may cause rejection of Proposals include evidence of collusion among Respondents, obvious lack of experience or expertise to perform the required Work, submittal of multiple Proposals from the same Respondent and/or its principals, failure to perform or meet financial obligations on previous contracts, employment of unauthorized aliens in violation of Section 274A (e) of the Immigration and Nationalization Act, or in the event an individual, Respondent, partnership, or corporation is on the United States Comptroller General's List of Ineligible Design-Builder for Federally Financed or Assisted Projects.

Proposals will also be rejected if not delivered or received on or before the date and time specified as the submittal deadline.

1.28 CONE OF SILENCE

This Solicitation is issued pursuant to Section 7-192 of the City Code, Cone of Silence, which prohibits certain types of communication with City Council members, City staff and Evaluation Committee members following issuance of the Solicitation (see Appendix "A").

Upon the Cone of Silence taking effect, the Purchasing Department shall issue public notice thereof by providing written notice to the affected City departments, the City Clerk's Office and to each City Council member. Notwithstanding any other provision of this section, the imposition of a Cone of Silence on a particular Solicitation shall not preclude the Purchasing Department from obtaining industry comment or performing market research provided all communication related thereto with a potential Respondent, Proposer, supplier, lobbyist or consultant are in writing or made at a duly noticed public meeting.

The Cone of Silence ordinance does not apply to communication at a Pre-Proposal conference, presentations before Selection Committees, negotiation meetings, presentations made to the City Council during any duly noticed public meeting or communications in writing at any time with any City Council member unless specifically prohibited by the applicable Solicitation documents. A copy of all written communications must be filed with the City Clerk.

1.29 SUBCONTRACTORS AND SUPPLIERS DISCLOSURES

This RFP requires that the Respondent must list any and all sub-contractors and/or sub- consultants who will perform any part of the Contract work and all suppliers who will supply equipment and/or products to the Respondent under this Contract. **Failure to comply with this requirement shall**

render the Proposal non-responsive. Moreover, the selected Respondent shall not change or substitute sub-contractors, sub-consultants or suppliers from those listed in the Proposal without prior written approval of the City (see Form A-6).

1.30 BUSINESS ENTITY / RESPONDENT REGISTRATION

The City of North Miami requires companies and individuals who wish to do business with the City to complete a vendor registration application before doing business with the City. Respondents need not register with the City in order to submit a Proposal; however, the selected Respondent(s) must register prior to award of a Contract. Failure to register may result in withdrawal of recommendation to award. To register, please contact the Purchasing Department at (305) 895-9886 or you may download the vendor registration form at our website at www.northmiamifl.gov. It is the sole responsibility of the business entity to contact the City and update any changes to their vendor registration profile such as new address, telephone number, commodities, etc. as soon as they occur.

1.31 EXCEPTION TO THE RFP

Respondents may take exceptions to any of the terms of this Solicitation unless it specifically states where exceptions may not be taken. If a Respondent takes exception where none is permitted, the Proposal will be rejected as non-responsive. All exceptions taken must indicate clearly what alternative is being offered to allow the City a meaningful opportunity to evaluate and rank Proposals, and the cost implications of the exception (if any). Where exceptions are taken, the City shall determine the acceptability of the proposed exceptions. After completing evaluations, the City may accept or reject the exceptions. When exceptions are rejected, the City may insist that the Respondent furnish the Services or goods described herein or negotiate an acceptable alternative.

All exceptions shall be referenced by utilizing the corresponding section, paragraph and page number in this RFP. However, the City is under no obligation to accept any exceptions. If no exception is stated, the City will assume that the Respondent will accept all terms and conditions.

1.32 PROPRIETARY/ CONFIDENTIAL INFORMATION

[See Section 1.19 Above]

1.33 LOCAL VENDOR PREFERENCE

The evaluation of competitive Solicitations is subject to Section 7-151, City Code which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. To satisfy this requirement, the Respondent shall submit in writing its compliance with any of the following objective criteria (see Form A-3).

A local business shall be defined as:

- a) A business located in the City with a current City business tax receipt issued prior to the City's issuance of the solicitation for supplies or services; or
- b) Has at least ten (10) percent of its total workforce residing in the City prior to the City's issuance of the solicitation for supplies or services; or
- c) Subcontracts at least ten (10) percent of the contractual amount of a City project with subcontractors who are physically located within the City (must submit Form A-3(a) as part of the Proposal).

The local business preference is used to assign a preference of ten (10) percent of the total evaluation point, or ten (10) percent of the total price to those Respondents who qualify for this preference.

The Respondent seeking local business preference has the burden to show that it qualifies for the preference, by submitting supporting documentation, to the satisfaction of the City. Failure to do so may result in being considered ineligible for local business preference.

1.34 RULES, REGULATIONS, AND LICENSING REQUIREMENTS

The Respondent shall comply with all laws; ordinances and regulations applicable to the Services contemplated herein, especially those applicable to conflict of interest and collusion. Respondents are responsible for being familiar with all Federal, State, and Local laws, ordinances, codes, rules and regulations that may in any way affect the goods or Services offered.

1.35 COMMUNITY BENEFITS PLAN

Not Applicable to this Solicitation.

1.36 MODIFICATIONS OF PROPOSAL

No unsolicited modification to the submitted Proposal will be permitted after the deadline for submittal of Proposals has passed.

1.37 REVIEW OF PROPOSALS

[See Section 1.19 Above]

1.38 LATE SUBMISSIONS

The City will not accept Proposals received after opening time and encourages early submittal.

1.39 PROPOSAL OPENING

This Solicitation will not be based solely on price. Therefore, the Cost Proposals will NOT be read aloud. However, properly received Proposals will be announced at the Proposal Opening. Proposal will be read in the Council Chambers located on the 2nd floor of City Hall 776 NE 125th Street North Miami, FL 33161. A list of Respondents shall be placed on the City's website.

1.40 ATTORNEYS' FEES

In the event of any dispute arising under or related to the Agreement, the prevailing party shall be entitled to recover all actual attorney fees, costs and expenses incurred by it in connection with that dispute and/or the enforcement of the Agreement, including all such actual attorney fees, costs and expenses at all judicial levels, including appeal, until such dispute is resolved with finality.

1.41 CONFLICTS OF INTEREST

The City's Conflict of Interest guidelines, provided under Article XI, of the City Code, as amended, shall apply to this Solicitation and Contract. Respondents should be aware, that if awarded

a Contract, no person under its employ who presently exercises any functions or responsibilities on behalf of the City in connection with this Solicitation has any personal financial interest, directly or indirectly, with awarded vendors or Respondents providing professional services on Work assigned to the selected Respondent. All Respondents are hereby placed on notice that if awarded a Contract pursuant to this Solicitation, no person having such conflicting interest shall be employed by the Respondent.

1.42 CONSTRUCTION SERVICES

The Contractor warrants and accepts that any and all repair Work required during the construction phase, irrespective of the cause, shall be deemed the responsibility of the Contractor at no additional cost to the City.

Finally, the Contractor accepts, understands and agrees that these provisions of the Agreement constitute a material inducement for the City to enter into the Agreement and that the City has indeed relied on these particular provisions in making its decision to enter into the Agreement with Contractor.

1.43 CONTRACTOR RELIANCE ON BUILDING DEPARTMENT

It is understood and agreed by the Contractor that the North Miami Building Department and its inspectors are professionals who are dedicated to providing efficient and courteous service to all residents, professionals, contractors and the public at large through plans processing, inspections and building maintenance, which ensures the protection of the citizens and enhances the quality of life within the City. For the purposes of this Project, the Building Department is not a surrogate of the City. All decisions by the Building Department as to whether some aspect of the Project is or is not in compliance with the Florida Building Code, Florida Fire Prevention Code and/or any other applicable codes, regulations, laws and ordinances are independent of and not deemed to be an act or a decision by the City. The Contractor agrees that it shall be the responsibility of the Contractor to ensure compliance with all applicable codes, regulations, law and ordinances. The Contractor warrants and accepts that any and all Work necessitated by inspections which is not prescribed in the Plans or Specifications, but necessitated to bring the Project into conformity with the Contract Documents and all applicable laws, codes, regulations, procedures and/or considered inside the contemplation of the Contract Documents shall be deemed the responsibility of the Contractor at no additional cost to the City.

1.44 CONTRACTOR OBLIGATIONS

The Contractor warrants that any and all Work, materials, services or equipment that may reasonably be inferred from the Contract as being required to produce the intended result, will be supplied by the Contractor at its own cost, whether or not specifically called for.

The Contractor warrants and accepts that any and all Work, materials, services or equipment necessitated by the Inspections of City and/or County agencies, or other regulatory agencies as are applicable, to bring the Project into conformity with the Contract and all applicable laws, codes, regulations, procedures, or considered inside the contemplation of the Contract, shall be deemed the responsibility of the Contractor at no additional cost to the City.

END OF SECTION

SECTION 2.0

SPECIAL CONDITIONS

2.1 PURPOSE

The purpose of this Solicitation is to solicit Proposals from qualified, experienced and licensed Respondent(s) to furnish all labor, documents, equipment and materials required to manage the design, pilot study, equipment supply, retrofitting or replacement of existing water meters, field installation, system implementation, and optimization of an Advanced Metering Infrastructure (AMI) Program to read the City's water meters in an automatic and cost effective manner as well as reduce the City's unaccounted for and non-revenue water. The AMI system includes, but is not limited to, providing and installing all components required for a complete fixed base network system with software, hardware, and all necessary training and installation support. This will be a multi-year project to ultimately retrofit or replace approximately 22,000 two inch (2") and smaller residential water meters throughout the City of North Miami, but the project also includes an initial pilot study phase provided and performed by the successful Respondent to assist in evaluating the proposed AMI system. The pilot study will include addressing approximately 1,200 water meters with preliminary network as defined in this document. Upon completion of the pilot study phase, the first installation phase of the project will include addressing an additional 3,800 water meters as well as establishing the complete fixed base network with meter data management and web hosting.

Subsequent installation phases will include installing the remaining two inch (2") and smaller residential water meters not installed as part of the pilot study or first installation phase of the project. The number of future phases as well as the number of meters installed per phase will be a function of the work completed in the pilot study, the first installation phase, and available City of North Miami project funding. The required project completion time for subsequent phases will be a function of the number of meters installed per phase. The need for the Respondent to provide a service contract including continued training, local technical support, and operation and maintenance assistance for subsequent phases will also be a function of the pilot study and first installation phase performance.

Services shall commence upon the issuance of Notice to Proceed (NTP) and shall remain in effect until such time as the commodities, equipment and/or Services acquired in conjunction with this Solicitation, have been completed and accepted by the City's authorized representative and upon completion of the expressed and/or implied warranty periods. The required project completion time for this pilot study and first installation phase is 18 months. In addition, the Respondent is to provide a service contract to include continued training, local technical support, operation and maintenance assistance, and project management for 1 year after completion of the pilot study and first installation phase. A list of the proposed City asset sites, and also the link to access the City's existing water meters are included in Appendix D. Details associated with the pilot study as well as the pilot study locations are included in Section 4 – Scope of Work. Alternate pricing is requested for the City of North Miami to determine if displacement or solid state water meters will be implemented.

This Solicitation shall serve to provide interested parties with general information as to the procedures for which a Respondent may be selected.

2.2 PRE-SOLICITATION CONFERENCE

A Pre-Solicitation Conference will be held on the date and time specified in the Solicitation Timetable section at the City of North Miami, City Hall, 776 NE 125th Street North Miami, FL 33161-4116 to discuss the special conditions of this Solicitation. Attendance at the Pre-Solicitation conference is

encouraged but not mandatory. Attendees are required to bring the Solicitation document(s) to the conference, as additional copies will not be available.

2.3 OPTION TO RENEW

This will be a multi-year project to ultimately retrofit or replace approximately 22,000 two inch (2") and smaller residential water meters throughout the City of North Miami, but the project also includes an initial pilot study phase provided and performed by the successful Respondent to assist in evaluating the proposed AMI system. The pilot study will include addressing approximately 1,200 water meters with preliminary network as defined in this document. Upon completion of the pilot study phase, the first installation phase of the project will include addressing an additional 3,800 water meters as well as establishing the complete fixed base network with meter data management and web hosting. In addition, the Respondent is to provide a service contract to include continued training, local technical support, operation and maintenance assistance, and project management for 1 year after completion of the pilot study and the first installation phase.

The City of North Miami reserves the right to extend this contract as needed. Subsequent phases will include installing the remaining two inch (2") and smaller residential water meters not installed as part of the pilot study or the first installation phase. The number of future phases as well as the number of meters installed per phase will be a function of the work completed in the pilot study, the first installation phase, and available City of North Miami project funding. The required project completion time for subsequent phases will be a function of the number of meters installed per phase. The need for the Respondent to provide a service contract including continued training, local technical support, and operation and maintenance assistant for subsequent phases will also be a function of the pilot study and the first installation phase performance.

2.4 METHOD OF AWARD

See Section 5 for method of evaluation and award.

2.5 LIQUIDATED DAMAGES FOR FAILURE TO COMPLETE THE WORK ON TIME:

It is mutually agreed that time shall be an essential part of this Solicitation, and that in case of the failure on the part of the Respondent to achieve completion of Work within the time specified and agreed upon in the Contract, the City will be damaged thereby. The amount of said damages, inclusive of expenses for implementation, optimization, inspections, additional program management fees, as well as additional City personnel, and necessary traveling expenses, being difficult if not impossible of definite ascertainment and proof, it is hereby agreed that the amount of such damages shall be Two Hundred Fifty dollars (\$250) for each day delayed in finishing the Work, in excess of the number of calendar days prescribed. The Contractor agrees that said sum shall be deducted from monies due to Contractor under the Agreement, or if no money is due, the Contractor agrees to pay to the City as liquidated damages, and not by way of penalty, the amount of Two Hundred Fifty dollars (\$250) for each day delayed in finishing the Work, in excess of the number of calendar days prescribed in the Agreement.

2.6 INDEMNIFICATION AND INSURANCE

Respondents must submit with their response, proof of insurance meeting or exceeding the following coverage or a letter of intent to provide the following requirements if awarded a Contract:

2.6.1 COMMERCIAL GENERAL LIABILITY

With project dedicated minimum limits of **\$1 Million** per occurrence, **\$2 Million** annual aggregate for bodily injury and property damage. This coverage shall also include personal

and advertising injury, medical payments and products completed operations to be maintained for 3 years after completion of Project.

2.6.2 PROFESSIONAL LIABILITY (Errors and Omissions)

\$1 Million minimum limit covering damages arising from the negligence of Contractor or its subcontractors in the performance of this Project. If this policy is written on a claims made basis. Contractor agrees to maintain a Retroactive Date prior to or equal to the effective date of any resulting contract.

2.6.3 COMMERCIAL AUTOMOBILE LIABILITY

With minimum limit of **\$1 Million**, covering any auto including non-owned, hired or leased. If no automobile is owned, the Contractor agrees to maintain coverage for Hired and Non-Owned Automobile Liability which can be satisfied by endorsing to the General Liability or securing a separate Business Auto Liability policy.

2.6.4 WORKER'S COMPENSATION

As required by the State of Florida with statutory limits, and Employer's Liability with a minimum limit of **\$1Million** per accident for bodily injury or disease.

Fidelity / Dishonesty Coverage of \$500k not included here, but see Form A-7.

2.6.5 BUILDER'S RISK

Written for the value of Project with deductible acceptable to City's Risk Management Division – Contractor shall procure coverage on an "all-risk" basis to insure participants against a casualty loss to the construction project. Coverage should also apply to transit, offsite storage, design errors, faulty workmanship and/or faulty materials, expediting expenses, debris removal and any maintenance coverage needs. Policy shall be in force from commencement of construction and continue in full force until project acceptance.

Both Commercial General; Automobile Liability and Builder's Risk insurance policies shall name the City of North Miami as "additional insured". All insurance required herein shall be written as primary policies, not contributing to or in excess of any coverage that the City may carry.

All insurance policies required by the Contract shall be maintained in full force and effect throughout the term period. The insurance carriers shall have a minimum of B+ rating based on the latest rating publication of Property and Casualty Insurers of A.M. Best Company (or its equivalent). All insurers must be lawfully admitted to conduct business within the State of Florida. Required insurance coverage must be approved by the City's Risk Management prior to commencement of Project. Contractor may produce any insurance under a "blanket" or "umbrella" insurance policy, provided that such policy or a certificate of such policy shall specify the amount(s) of the total insurance allocated to this Project. Coverage limits shall equal or exceed the amount(s) required by this Agreement and shall not be reduced for claims made for other projects undertaken by Contractor.

The Contractor must submit, prior to signing of Contract, a Certificate of Insurance naming the City of North Miami as additional insured for Commercial General Liability; Auto Liability and Builder's Risk Insurance. Contractor shall guarantee all required insurances remain current and in effect throughout the term of Contract.

Contractor shall indemnify and hold harmless the City and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorneys' fees and costs of defense, which the City or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of,

relating to or resulting from the performance of an Agreement by the Contractor or its employees, agents, servants, partners principals or Subcontractors.

Contractor shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the City, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorney's fees which may issue thereon.

Contractor expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by Contractor shall in no way limit the responsibility to indemnify, keep and save harmless and defend the City or its officers, employees, agents and instrumentalities as herein provided.

The Contractor must submit, no later than ten (10) days after award and prior to commencement of any Work, a Certificate of Insurance naming the City of North Miami as additional insured.

2.7 BID BOND/OFFER GUARANTY BASED ON PERCENTAGE OF OFFER PRICE

All Proposals shall be accompanied by an offer guaranty/bid bond in the form of a Certified Check, Cashier's Check or Bid/Proposal Bond in the amount of 5 % of Total price, payable to the City of North Miami. Subsequent Contract award shall be conditioned upon the Contractor submitting the stipulated performance and/or payment bond within ten (10) calendar days following notice of award, in the form and manner required by the City. Any offer which is not accompanied by an offer guaranty/bid bond shall be considered unacceptable and/or non-responsive and ineligible for award. In case of failure or refusal to submit the performance and/or payment bond within the time stated, the security submitted with the offer shall be forfeited as liquidated damages because of such failure or default. All Respondents shall be entitled to the return of their offer guaranty.

2.8 PERFORMANCE AND PAYMENT BOND

For projects that exceed \$100,000, the City shall require the Contractor to furnish a Performance and Payment Bond in the amount of 100% of the total Proposal Price, with the City of North Miami as the Obligee, as security for the faithful performance of the Contract and for the payment of all persons performing labor or furnishing materials within ten (10) calendar days after notification of the award by the City. The bonds shall be with a surety company authorized to do business in the State of Florida.

2.9 FAILURE TO PERFORM

If in the opinion of the City's representative, the Contractor refuses to begin Work, improperly performs said Work, or neglects or refuses to take out or rebuild such Work, as shall have been rejected or as being defective or unsuitable, then City's representative may notify the Contractor to repair and replace Work immediately or discontinue all Work under Contract.

If at any time the City's representative shall be of the opinion that the said Work is being unnecessarily delayed and will not be finished within the prescribed time then City's representative may notify the Contractor to discontinue all Work under Contract. The Contractor shall immediately respect said notice and stop said Work and cease to have any rights to the possession on the Project site and shall forfeit the Contract.

The City may thereupon look to the next lowest and responsive and responsible Respondent to complete the Work or re-advertise for Proposals the uncompleted Work and charge the cost thereof to the original Respondent under Contract. Any excess cost arising therefore over and above the original Contract Price shall be charged to the Respondent.

2.10 METHOD OF PAYMENT: PHASED PAYMENTS FOR WORK COMPLETED

The City shall provide partial payments for Work completed by the Contractor during various phases of the Work assignment. The Contractor shall provide fully documented invoices, which indicate, in addition to the basic information set forth below, the time and materials provided to the City user department(s) that requested the Work through a purchase order. It shall be understood that such invoices shall not be authorized for payment until such time as a City representative has inspected and approved the completed phase of the Work assignment. The percentage or component of completed Work which corresponds to the acceptable payment schedule shall be as follows:

All invoices shall contain the following basic information:

2.10.1 Respondent Information:

- The name of the business organization as specified on the Contract between City and Contractor
- Date of invoice
- Invoice number
- Contractor's Federal Identification Number on file with the State

2.10.2 City Information:

- City Purchase Order Number

2.10.3 Pricing Information:

- Unit price of the goods, services or property provided
- Extended total price of the goods, services or property
- Applicable discounts

2.10.4 Goods or Services Provided per Contract:

- Description
- Quantity

2.10.5 Delivery Information:

- Delivery terms set forth within the City Purchase Order
- Location and date of delivery of goods, services or property

2.10.6 Failure to Comply:

- Failure to submit invoices in the prescribed manner will delay payment.

2.11 ACCIDENT PREVENTION AND BARRICADES

Precautions shall be exercised at all times for the protection of persons and property. All Contractors and sub-contractors performing Services under Contract shall conform to all relevant OSHA, State and City regulations during the course of such effort. Any fines levied by the above mentioned authorities for failure to comply with these requirements shall be borne solely by Contractor. Barricades shall be provided by the Contractor when Work is performed in areas traversed by persons, or when deemed necessary by the City Project Manager.

Contractor shall assume full responsibility for any damage to any mangroves, land or areas or to the owner or occupant of any contiguous land, areas, or property resulting from the performance of Services.

2.12 CLEAN UP

All unusable materials and debris shall be removed from the premises at the end of each workday, and disposed of in an appropriate manner. Upon final completion, the Contractor shall thoroughly

clean up all areas where Work was performed.

2.13 MATERIALS SHALL BE NEW AND WARRANTED AGAINST DEFECTS

The Respondent hereby acknowledges and agrees that all materials, except where recycled content is specifically requested, supplied by the Respondent in conjunction with this Solicitation and resultant contract shall be new, warranted for their merchantability, and fit for a particular purpose. In the event any of the materials supplied to the City by the Respondent are found to be defective or do not conform to specifications: (1) the materials may be returned to the Respondent at the Respondent's expense and the Contract cancelled or (2) the City may require the Respondent to replace the materials at the Respondent's expense.

2.14 WARRANTY SHOULD BE SUPPLIED IN WRITTEN FORM

2.14.1 TYPE OF WARRANTY COVERAGE REQUIRED

The Respondent shall provide a copy of its written warranty certificates with its initial offer, or upon request from the City. Failure to meet this requirement may result in the offer being deemed non-responsive. The warranty supplied by the Respondent shall remain in force for the full period identified by the Respondent; regardless of whether the Respondent is under Contract with the City at the time of defect. Any payment by the City on behalf of the goods or services received from the Respondent does not constitute a waiver of these warranty provisions.

2.14.2 CORRECTING DEFECTS COVERED UNDER WARRANTY

The Contractor shall be responsible for promptly correcting any deficiency, at no cost to the City, within 7 calendar days after the City notifies Contractor of such deficiency in writing. If the Contractor fails to satisfy the warranty within the period specified in the notice, the City may (a) place the Contractor in default of its Contract, and/or (b) procure the Work or Services from another source and charge the Contractor for any additional costs that are incurred by the City for this Work or items; either through a credit memorandum or through invoicing.

2.15 GUARANTEE AGAINST DEFECTS

Contractor shall, in addition to all other guarantees, be responsible for faulty labor and defective materials and equipment as specified in Sections 3.0 and 4.0 after date of acceptance of the Project by the City. The Contractor shall promptly correct these deficiencies, without cost to the City, after the City notifies the Contractor of such deficiencies in writing. Payment in full for the Work does not constitute a waiver of guarantee.

2.16 INSPECTION BY THE CITY

The Contractor is required to conduct on-site inspections at times which are mutually convenient to the Contractor and the City's officials, and shall be performed prior to the final completion of the Project in order to evaluate conformity with the contract. The Contractor shall provide reasonable notice to the City prior to the scheduling of these on-site production inspections.

The City reserves the right to require modifications to the Project if such modifications are necessary in order to bring the Project into compliance with the Contract specifications or the Contractor's Proposal.

2.17 ACCEPTANCE OF PRODUCT BY THE CITY

The Work to be provided hereunder shall be delivered to the City, and maintained if applicable to the Contract, in full compliance with the specifications and requirements set forth in the Contract. If a Contractor-provided product is determined to not meet the specifications and requirements of the Contract, either prior to acceptance or upon initial inspection, the item will be returned, at Contractor's expense. At the City's own option, the Contractor shall either provide a direct replacement for the item, or provide a full credit for the returned Work. The Contractor shall not assess any additional charge(s) for any conforming action taken by the City under this clause.

2.18 NOTICE TO PROCEED

The Contractor shall neither commence any Work, nor enter a City Work premise, until a written Notice to Proceed (NTP) directing the Contractor to proceed with the Work has been received by the Contractor from City Project Manager or an authorized City representative provided however, that such notification shall be superseded by any emergency Work that may be required in accordance with the provisions included elsewhere in this Solicitation and resultant Contract.

2.19 COMPLETION OF WORK FROM DATE OF NOTICE TO PROCEED

The Respondent shall have up to 18 months to complete all work associated with the pilot study and the first installation phase as well as provide the City with Project Management for one year after completion of the project. All Work shall be performed in accordance with good commercial practice. The Work schedule and completion dates shall be adhered to by the awarded Respondent; except in such cases where the completion date will be delayed due to acts of God, strikes, or other causes beyond the control of the Contractor. In these cases, the Contractor shall notify the City of the delays in advance of the original completion date so that a revised completion schedule can be appropriately considered by the City.

Should the Contractor to whom the Contract is awarded fail to complete the Work within the number of days as stated, it is hereby agreed and understood that the City reserves the authority to cancel the Contract with the Contractor and to secure the Services of another Contractor to complete the Work. If the City exercises this authority, the City shall be responsible for reimbursing the Contractor for Work which was completed and found acceptable to the City in accordance with the Contract specifications. The City may, at its option, demand payment from the Contractor, through an invoice or credit memo, for any additional costs over and beyond the original Contract price which were incurred by the City as a result of having to secure the Services of another Respondent. If the Contractor fails to honor this invoice or credit memo, the City may terminate the Contract for default.

2.20 COMPLIANCE WITH FEDERAL STANDARDS

All items to be purchased under Contract shall be in accordance with all governmental standards, to include, but not be limited to, those issued by the Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety Hazards (NIOSH), the National Fire Protection Association (NFPA) and the Florida Department of Transportation (FDOT) standards

2.21 WORK ACCEPTANCE

This Project will be inspected by an authorized representative of the City. This inspection shall be performed to determine acceptance of Work, appropriate invoicing, and warranty conditions.

2.22 DEFICIENCIES IN WORK TO BE CORRECTED BY THE CONTRACTOR

The Contractor shall promptly correct all apparent and latent deficiencies and/or defects in Work,

and/or any Work that fails to conform to this Solicitation regardless of Project completion status. All corrections shall be made within seven (7) calendar days after such rejected defects, deficiencies, and/or non-conformances are verbally reported to the Contractor by the City's project administrator, who may confirm all such verbal reports in writing. The Contractor shall bear all costs of correcting such rejected Work. If the Contractor fails to correct the Work within the period specified the City may, at its discretion, notify the Contractor, in writing, that the Contractor is subject to contractual default provisions if the corrections are not completed to the satisfaction of the City within seven (7) calendar days of receipt of the notice. If the Contractor fails to correct the Work within the period specified in the notice, the City shall place the Contractor in default.

2.23 LABOR, MATERIALS AND EQUIPMENT SHALL BE SUPPLIED BY THE CONTRACTOR

Unless otherwise provided in this Solicitation the Contractor and/or sub-contractor(s) shall furnish the following, including but not limited to, all labor, material, equipment, barricading, adequate supervision, and coordination for satisfactory Contract performance. When not specifically identified in the technical specifications, such materials and equipment shall be of a suitable type and grade for the purpose stated in this Solicitation. All material, Workmanship, 100% design, implementation, testing and equipment shall be subject to the inspection and approval of the City's Project Manager.

2.24 LICENSES, PERMITS AND FEES

The Contractor shall obtain and pay for all licenses, permits and inspection fees required for this Project; and shall comply with all laws, ordinances, regulations and building code requirements applicable to the Work contemplated herein. Damages, penalties and or fines imposed on the City or the Contractor for failure to obtain required licenses, permits or fines shall be borne by the Contractor.

2.25 MODIFICATION TO PROJECT PROGRAM

The City Manager or authorized representative reserves the right to change the project or program design without additional cost; provided that there is no increase in the amount of materials, workmanship or cost to the Contractor. Any conflict or inconsistency in the specifications shall be reported, in writing, by the Contractor to the City's Project Manager or authorized representative; whose decision thereon shall be conclusive.

Any errors, omissions, ambiguities, and/or discrepancies which are found in the specifications during the course of the Work shall be interpreted by the City Manager or authorized representative. Further, any discrepancies in the specifications which the Contractor failed to bring to the attention of the City Manager or authorized representative before submitting its offer shall be interpreted by the City Manager or authorized representative. The Contractor hereby understands and agrees to abide by the City Manager or authorized representative interpretation and agrees to complete the Work in accordance with the decision of the City Manager or authorized representative. If the specifications are not complete as to any minor detail of a required system or equipment, but there exists an accepted manufacturing standard, such details shall be deemed to have been implied and required by the specifications in accordance with such standard.

2.26 OMISSION FROM THE SPECIFICATIONS

The apparent silence of this specification and any addendum regarding any details or the omission from the specification of a detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail, and that only materials and workmanship of first quality are to be used. All interpretations of this specification shall be made upon the basis of this Agreement.

2.27 SUB-CONTRACTORS OF WORK SHALL BE IDENTIFIED

As part of its Respondent response, the Respondent is required to identify any and all Sub-contractors that will be used in the performance of the proposed Contract, their capabilities and experience, and the portion of the Work to be done by the Sub-contractor. The competency of the Sub-contractor(s) with respect to experience, skill, responsibility and business standing shall be considered by the City when making the award in the best interest of the City. If the Respondent fails to identify any and all Sub-contractor in the Proposal, the Respondent may be allowed to submit this documentation to the City during the Solicitation evaluation period if such action is in the best interest of the City.

2.28 WAIVER OF IRREGULARITIES

The City may waive minor informalities or irregularities in Proposals received where such is merely a matter of form and not substance, and the correction or waiver of which is not prejudicial to other Proposers. Minor irregularities are defined as those that will not have an adverse effect on the City's interest and will not affect the price of the Proposals by giving a Proposer an advantage or benefit not enjoyed by other Proposers.

- 2.28.1 Any design submittals that are part of a Proposal shall be deemed preliminary only.
- 2.28.2 Preliminary design submittals may vary from the requirements of the Project criteria. The City, at their discretion, may elect to consider those variations in awarding points to the Proposal rather than rejecting the entire Proposal.
- 2.28.3 In no event will any such elections by the City be deemed to be a waiving of the Project criteria.
- 2.28.4 The Proposer who is selected for the Project will be required to fully comply with the Project criteria for the Price Proposal, regardless that the Proposal may have been based on a variation from the Project criteria.
- 2.28.5 Proposers shall identify separately all innovative aspects as such in the Proposal. Innovation should be limited to Respondent's means and methods, approach to Project, use of new products, and new uses for established products.
- 2.28.6 Those changes to the Design Concept may be considered together with innovative construction techniques, as well as other areas, as the basis for grading the Proposals.

2.29 COUNCIL MEETING

Contractor must be available to attend City Council meetings when required. Contractor must be prepared to answer any questions and/or provide oral presentation (using presentation board, PowerPoint's or handouts) if requested by Council and/or authorized City representative."

2.30 SOLICITATION CLARIFICATION AND INQUIRIES

Any questions or clarifications regarding this Solicitation shall be submitted in writing to the Purchasing Department via email at purchasing@northmiamifl.gov. Respondent(s) must clearly understand that the only official answer or position of the City will be the one received in writing.

The Solicitation number and title shall be referenced on all correspondence, be sure to include the page and paragraph number for each question in order to ensure that questions asked are responded to correctly. All questions must be received no later than the time and date specified in the Solicitation Timetable section. All responses to questions/clarifications will be sent to all prospective Respondents in the form of an addendum. **NO QUESTIONS WILL BE RECEIVED VERBALLY OR**

AFTER SAID DEADLINE. Addendum(s) will be made available on the City's webpage and it is the Respondent's sole responsibility to assure receipt of all (if any) addenda(s).

END OF SECTION

SECTION 3.0

TECHNICAL SPECIFICATIONS

3.1 INTRODUCTION / OVERVIEW

City of North Miami is hereby requesting proposals for a Fixed Base Advanced Metering Infrastructure and Water Loss Management system to read meters in an automated and cost effective manner as well as reduce the City of North Miami's unaccounted for and non-revenue water. The City of North Miami also seeks to conduct advanced data analysis through this system based upon the data it provides.

This REQUEST FOR PROPOSALS (RFP) requests a response for purchase of the following as part of a pilot study and full project implementation:

- Radio endpoints to encode, store, and transmit register data, interval data, leak data, and tamper data.
- A Fixed Based AMI reading system with Mobile AMI as a backup (Flexible collection of data, using handhelds, mobile and fixed collection systems in tandem or migrating from one system to another without costly equipment change-outs) to collect register data, interval data, tamper data and reliably process this data, and pass this data to the customer information system (CIS) or Analytics software.
- A Water loss management system that values a solution that supports water conservation programs for both the utility and its customers.
- Replacement of Residential Water Meters that support either standard mechanical measuring elements or non-moving part "Solid State Meters" that can give added benefit and support to the AMI system.
- An endpoint programming system with the capability to initialize endpoints upon installation and pass pertinent installation data to the system.
- A solution that supports conservation through meter right-sizing without complicated IT support.
- A user interface for all value-added functionality which is simple to use, ubiquitous in nature, and allows access from all appropriate departments.
- Customer support services, including: assistance with software operation; troubleshooting and reconciling failed devices; network growth and the addition of new devices; training needs; recurrent software upgrades; and other activities to sustain proper operation of the system.
- A system with flexible customer engagement options, data presentment through PC and smart phones.
- A system with user-friendly data display so that customer service representatives can provide clear and accurate information to customer who call with usage questions or billing concerns.
- A system that provides multiple, flexible reading options for all endpoints.
- Application software and licenses
- Experience and Local professional services for installation and training
- Ongoing hardware and software maintenance and support
- In addition to initially reading and monitoring potable water meters, the proposed AMI system should be expandable for other uses such as: other metered municipal flows, traffic monitoring, street light management, vehicle routing management, wastewater

flow monitoring and water usage comparison for inflow/infiltration reduction, Sanitary Sewer Overflow (SSO) Monitoring, improved mobility, lift station telemetry, and irrigation monitoring for water loss tracking purposes.

Any systems and services proposed must cover the meters in use at City of North Miami and must be compatible with standard communication protocols to cover other meters and/or service types. The proposed system must be designed to maintain an upgrade path for future technology and future applications while maintaining backwards compatibility to read installed meters.

City of North Miami seeks to acquire a meter reading system that meets the following objectives:

- Meter reading and meter data collection in the most safe and cost-effective manner possible
- Data collection using fixed based reading processes with a mobile based process as a back-up due to any issues that may arise with a fixed base collector.
- The System must be capable functioning as a “Hybrid System” for both fixed base and mobile based reading.
- Manual entry of meter readings and other meter data using the computer keyboard
- Collection of meter readings, tamper data and up to 160 days of daily and hourly interval data from water meters via handheld, drive-by radio or fixed base.
- Ability to perform remote disconnect and reconnect of water service via handheld, drive-by, or fixed based radio incorporated into meter reading routes
- Ability to collect acoustic water leak sensor data via handheld, drive-by or fixed based radio incorporated into meter reading routes
- Ability to collect data from endpoints where the data is in an encrypted format
- Ability to migrate from walk-by or drive-by data collection to advanced meter capabilities using a networked system using the same meters and modules
- Ability to integrate readings from the network with the mobile system allowing for: mobile to fixed network migration, contingency reading of meters under the network, and a single interface to the billing system for all meter readings
- Provide in-home leak detection flags by monitoring minimum usage to reduce lost water and avoid high water bills for improved customer service.
- Enhance service to our customers with ability to conduct timelier bill complaint investigation and resolution using detailed data collected by the AMI system that can be used by the customer support team as well as shared directly with the customer.

3.2 TECHNICAL SPECIFICATIONS

The bidder's system for the pilot study as well as full project implementation shall meet the following technical requirements:

3.3 ENDPOINTS

- 3.3.1 The endpoint must be capable of operating in harsh environments. List the environmental specifications of the endpoint and describe its ability to withstand extreme high and low temperature conditions as well as its resistance to water intrusion. As a minimum, the endpoint must function accurately and not be damaged over an operating temperature range of -40 to +70 degrees Celsius.
- 3.3.2 The endpoint must withstand submersion in one (1) meter of water for a minimum of 30 minutes in accordance with IPx7 testing, per IEC 529 (EN 60529).

- 3.3.3 The endpoint must be designed to last in the field without need for servicing for a minimum of 20 years. Indicate the expected product life of the endpoint and provide any engineering data to support the claim.
- 3.3.4 Describe the power supply utilized by the endpoint. Battery operated endpoints must have a battery design life of 20 years with engineering data to support the claim.
- 3.3.5 The bidder's solution must provide the same functionality for both indoor water meters and those located in pit settings. Endpoints proposed for pit settings must be able to withstand the harsh pit environment and have no exposed electrical connections.
- 3.3.6 List how frequently the endpoint bubbles up in drive-by and fixed network mode.
- 3.3.7 The endpoint must be factory installable at the meter manufacturer. List all available options for the installation of the endpoint into new or existing meters.
- 3.3.8 The endpoint in pit setting must offer an in-line connector that enables removal of the meter for periodic testing while allowing the endpoint to stay in the field. Connector must be a proven device with three or more years of use in the field.
- 3.3.9 The endpoint must utilize an accurate and reliable encoding technology to capture readings. Encoder technology must be Absolute Encoder. Describe the encoding technology utilized in the endpoint.
- 3.3.10 The endpoint must be capable of detecting and reporting potential theft. Describe all tamper reports available with this water endpoint. At a minimum, the endpoint must report cut cable tampers, register communication errors, and reprogramming attempts.
- 3.3.11 The system must be capable of detecting and reporting reverse flow events. Describe how the system detects and reports reverse flow.
- 3.3.12 The endpoint must be capable of detecting and reporting metered leak events. Describe how the system detects and reports leaks.
- 3.3.13 The system shall allow the addition of meter modules at any time without the need for system reconfiguration. Describe the process for adding additional modules.
- 3.3.14 The endpoint shall have the option of having a remote antenna for exceptionally unfriendly RF environments where standard mobile read mode is not sufficient for satisfactory reading performance.
- 3.3.15 The endpoint should have an optional second port to connect an acoustic leak sensor, telemetry device or automatic shut off valve.
- 3.3.16 Bidder shall have sold a minimum of ten million radio-frequency based endpoints to the water utility market to assure familiarity with the water market.
- 3.3.17 Endpoints capable of auto-configuring themselves when connected to encoded registers are preferable over endpoints that require programming after being connected to an encoded register. Explain available process for activation and programming of endpoints.
- 3.3.18 Endpoints shall be capable of reading the water meter on top of the hour every hour and storing a minimum of 160 days of readings. The endpoint shall be capable of transmitting any or all of the readings via radio commands to avoid having to physically visit the endpoint site. Describe memory capacity of endpoints, data logging retrieval process, and how the endpoint's clock is kept on time, as well as the clock's accuracy.
- 3.3.19 The endpoint should support remote shut-off. Please describe virtual and actual shut-off mechanisms.

- 3.3.20 The remote shut off capability must be agnostic to market technology. No integral remote shut-off will be accepted.
- 3.3.21 As part of City of North Miami's commitment to system integrity and conservation, City of North Miami requires the ability to meter right-size. One-minute resolution is preferred. What is the resolution of your meter right-sizing system? Please describe the functionality of your meter right-sizing system.
- 3.3.22 Endpoint must have secure data communications. Please describe the security at the endpoint.

3.4 RADIO FREQUENCIES

- 3.4.1 City of North Miami is seeking a solution with low power and high through-put data handling characteristics.
- 3.4.2 The endpoint can operate in the licensed or non-licensed ISM band according to the rules and regulations of the Federal Communications Commission (FCC) and Industry Canada (IC).
- 3.4.3 Describe the bandwidth capacity of the system and expected data loads which will be carried.

3.5 METER COMPATIBILITY

- 3.5.1 Bidder must be compatible with multiple meter vendors to allow for complete freedom of meter choice. Depending on which utility segment, provide a listing of meter manufacturers and meter model numbers of which the endpoints are compatible. State whether the proposed system gives City of North Miami the flexibility to purchase meters from multiple bidders. Meter compatibility listings for endpoints must be provided.
- 3.5.2 Based upon City of North Miami meter data provided (Appendix D), please provide the estimated number of meters that can be retrofitted with endpoints and the estimated number of new meters required to automate the meter population.

3.6 RETROFIT HARDWARE REQUIREMENTS

- 3.6.1. Describe the equipment needed to perform retrofit installations of endpoints in the field.
- 3.6.2. Describe how your firm retrofits meters less than 10 years old.

3.7 APPLICATION SOFTWARE FOR ROUTE PROCESSING

3.7.1 Application Architecture

- 3.7.1.1 The application software must be a multi-tier client-server application based on the Microsoft's .NET development environment.
- 3.7.1.2 The application software database management system must support Microsoft® SQL Server 2012 or Oracle® 11g.
- 3.7.1.3 The application software server operating system must support Windows Server 2012.
- 3.7.1.4 The application software client operating system must support Windows 10 to be compliant with Utility software.

- 3.7.1.5 The application software must support the ability to horizontally scale to support potential utility growth without installing multiple instances of the software.
- 3.7.1.6 The application software must support wired and wireless communications to handhelds and mobile collectors.
- 3.7.2 System Configuration
 - 3.7.2.1 The application software must provide the ability to configure lists of codes and translations for the various meter reading and route processing functions. Provide a list of code tables that can be configured.
 - 3.7.2.2 The application software must provide the ability to configure various business process rules. Provide a list of meter reading and route processing rules that can be configured.
 - 3.7.2.3 The application software must provide the ability to integrate user defined scripts, batch files and programs that can then be accessed and executed by application users.
 - 3.7.2.4 The application software must provide the ability to configure the main display of the handheld device using drag and drop mechanisms.
 - 3.7.2.5 The application software must provide the ability to install and manage multiple versions of handheld software components.
 - 3.7.2.6 The application software must automatically update software on handheld devices based on software components assigned to specific handhelds or groups of handhelds by a system administrator.
- 3.7.3 Security
 - 3.7.3.1 The application software must provide the ability to configure organizational hierarchy of the utility and assign routes, employees and collection devices to groups in the hierarchy
 - 3.7.3.2 The application software must provide the ability to control access to groups of the organizational hierarchy and the routes, employees and collection devices within those groups for each employee on the system.
 - 3.7.3.3 The application software must provide the ability to integrate users and authentication with LDAP compliant systems including Windows Active Directory.
 - 3.7.3.4 The application software must provide the ability to store and manage user names and passwords for application users and handheld users
 - 3.7.3.5 The application software must provide the ability to allow the system administrator to define the minimum length of user passwords.
 - 3.7.3.6 The application software must provide the ability to allow the system administrator to define the duration of time before passwords expire.
 - 3.7.3.7 The application software must provide the ability to allow the system administrator to define the maximum amount of failed log in attempts by a user before the user is locked out.
 - 3.7.3.8 The application software must provide the ability to view a history of successful logins and failed login attempts.
 - 3.7.3.9 Describe how your software controls user permissions and accessibility to application features and data.
- 3.7.4 Drive-by Computer Interface

- 3.7.4.1 The proposed system must provide for complete interface to the drive-by data collection device. Route unloading and loading must be provided either by manual operation or by automatic loading with pre-assigned reading activity.
- 3.7.4.2 Transfer of route data shall be allowed through the use of external compact flash media including USB drives or via a direct transfer over wired or wireless network connection.
- 3.7.4.3 The application server software must have the ability to automatically post uploaded route files from the mobile computer.
- 3.7.4.4 The proposed system must be cloud based so data can be obtained from one device to another without requiring downtime for data upload/downloads.

3.8 HANDHELD COMPUTER AND RELATED HARDWARE

3.8.1 Collection Characteristics and Memory

- 3.8.1.1 Memory for application and data used in the data capture devices must be secure data technology, a non-volatile memory that improves data integrity and security.
- 3.8.1.2 The handheld computer must have the capability to store all meter reading data collection information—including routes—on a removable, user accessible Secure Data (SD) Compact Flash (CF) card. This removable media should be able to be copied to an alternate handheld in the event of a handheld failure to retain and restore the meter reading data.
- 3.8.1.3 The device must have persistent memory storage of system configuration and user setting to prevent having to reload them after a system reset or the main battery gets completely discharged.
- 3.8.1.4 The device must be capable of wireless reading meters from off-premise. Please list and describe the reading options available with the handheld collection device.

3.8.2 Keyboard

- 3.8.2.1 The device must have an easy-to-use data input system. The keyboard must provide the following:
 - Environmental protection without the need for special covers or cases.
 - Alphanumeric data entry without need for a Shift key.
 - Dedicated New Service and/or Meter keys.
 - A dedicated Change Meter Information key.
 - A keyboard legend that facilitates the use of the application indicating software shortcuts or speed keys.
 - Large numeric and Enter keys to support use with gloved hands.
 - Keyboard and key legends that are backlit for use in low-light settings.
 - Keyboard keys must give the user a tactile feedback.

3.8.3 Display and Physical Characteristics

- 3.8.3.1. The devices must use color liquid crystal display (LCD) technology with a minimum of 16 bits of resolution for applications that require a graphical user interface (GUI).
- 3.8.3.2. The display must be backlit and be readable in outdoor applications.

- 3.8.3.3. A touch-screen display shall be standard with every system. It needs to be pressure-sensitive and activated by the finger or a passive stylus.
- 3.8.3.4. The display must support the use of a protective transparent film without negatively affecting its usability or readability.
- 3.8.3.5. All handheld devices must be equipped with:
 - Hot swappable, field replaceable and rechargeable batteries
 - Battery capacity indicator with at least 4 levels
 - A battery charging system that completely charges the battery pack within 4 hours
 - The handheld computer must provide data security in the event of loss of power from the main battery supply. This protection is required even if the main battery supply is removed while the handheld computer is turned on for a minimum of 24 hours.
 - Battery must utilize smart lithium-ion technology with a minimum capacity of 2500 mAh.
 - The device must be chargeable outside of the communications cradle, including in a utility vehicle. Describe all charging options.

3.8.4 Processing

- 3.8.4.1 The system shall support a minimum processor running at least 800 MHz
- 3.8.4.2 The system must be able to run at a minimum Microsoft® Windows 7.

3.8.5 Communications

- 3.8.5.1 The handheld must have the capability to perform its functions via radio with no wire connections required to the meter or meter module. Define the radio technology utilized by the programming handheld computer.
- 3.8.5.2 All radio components must be fully integrated into the handheld computer.
- 3.8.5.3 Should City of North Miami choose to purchase a non-radio version of the handheld; it must be feasible to upgrade these units in the future to support wirelessly reading meters.
- 3.8.5.4 The handheld must be IP-addressable and must communicate via Ethernet, USB, and serial port connections.
- 3.8.5.5 The system shall have, as an option, an internal GPS radio to capture latitude and longitude coordinates.

3.9 DRIVE-BY MOBILE COLLECTION SYSTEM

- 3.9.1 Provide the specifications of drive-by system such as size, weight and so on.
- 3.9.2 The drive-by system must be capable of operating inside of any utility vehicle in harsh environments. List the environmental specifications of the communications device.
- 3.9.3 The drive-by system must be easily installed into new or existing utility vehicles. Indicate the installation procedure of the communications device.
- 3.9.4 The drive-by system must provide the ability collect meter readings, tamper data and up to 160 days of daily and hourly interval data from water meters via handheld or drive-by radio.
- 3.9.5 The drive-by system must provide the ability to perform remote disconnect and reconnect of water service via handheld or drive-by radio incorporated into meter

- reading routes. The commands must be secured using industry standard encryption and authentication protocols.
- 3.9.6 The drive-by system must provide the ability to collect acoustic water leak sensor data via handheld or drive-by radio incorporated into meter reading routes.
 - 3.9.7 The drive-by system must provide diagnostics capability to allow troubleshooting in the field.
 - 3.9.8 The drive-by system must distinguish endpoints to be read based on priority via colored symbology on the mapping application.
 - 3.9.9 The drive-by system must provide a mapping application, including GPS, that allows the meter reader to visually determine which meters have been read and those that remain to be read via colored symbology.
 - 3.9.10 The drive-by system mapping application must provide the meter reader the flexibility to see only those meters that have not been read.
 - 3.9.11 The drive-by system mapping application must provide the meter reader the ability to view geographically where the vehicle is in relation to the end points being read.
 - 3.9.12 The drive-by system application must include functionality to calculate latitude and longitude GPS data for mapping purposes from address locations provided by the utility.
 - 3.9.13 The drive-by system must provide the ability to filter out interference that may be interpreted as meter reads. Please describe the method to accomplish this.
 - 3.9.14 The drive-by system must have 80 channels of read capability. If not, please identify how many channels of read capability your system provides.
 - 3.9.15 Explain in detail the migration strategy to go from handheld to drive-by and to fixed network.

3.10 FIXED NETWORK

- 3.10.1 City of North Miami requires the vendor to “host” the data management services of the solution. The hosted AMI network shall be monitored for performance with reporting on a regular basis to the City. Please describe your hosting capabilities, including cost savings to City of North Miami, location of the hosting operations, scalable for new coverage areas, failover procedures, preventative maintenance practices, disaster recovery and system backup, future system upgrades, data retention and archiving, and security features. Note any features that are “optional” or “extra,” including price difference.
- 3.10.2 Any systems and services proposed must cover the meters in use at City of North Miami and must be compatible with standard communication protocols to cover other meters and/or service types. The proposed system must be designed to maintain an upgrade path for future technology and future applications while maintaining backwards compatibility to read installed meters. Describe the proposed intent with respect to providing this future upgrade path and any proposed remedy for failure to do so.
- 3.10.3 City of North Miami understands that interference in RF is possible, even in a licensed band. How does your system handle interference? What is the expected downtime when interference occurs?
- 3.10.4 City of North Miami requires that the collection system deployed be flexible enough to use fixed network data collection alongside mobile and handheld collection when desired describe the way your system offers multiple collection options.

- 3.10.5 City of North Miami requires frequent data transmission. What is the rate of data transmission from the endpoint to the collector? From the collector to the utility office? What is the maximum amount of time before new data replaces old in the system?
- 3.10.6 City of North Miami requires a solution that is field tested and proven. How long has your company been providing AMI systems?
- 3.10.7 City of North Miami requires collection redundancy to accommodate extreme weather and other disruptions as well as to accommodate occasional contingency reads. How does your solution demonstrate redundancy? What happens when extreme weather, vandalism, or other unpredictable interruptions knock out a collector? How long does it take for a collector to come back online? At what cost?
- 3.10.8 City of North Miami requires solar power capabilities for the data collectors.
- 3.10.9 City of North Miami understands that factors such as terrain, urban density and the installation environment can affect coverage. City of North Miami requires that the fixed network data collectors be flexible in their mounting and location requirements.
- 3.10.10 City of North Miami desires that fixed network data collectors be unobtrusive. Please describe the mounting and location requirements for your fixed network data collectors.
- 3.10.11 City of North Miami requires accurately time-synchronized data. Please describe the time synchronization process of your system. How can you guarantee that time synchronization will remain accurate over the life of the system?
- 3.10.12 City of North Miami requires two-way data collection. Please describe the process of requesting an on-demand read through your fixed network system. How recent will the data be?
- 3.10.13 City of North Miami requires a fixed network data collection system that provides a secure communication between the head end and the endpoint. City of North Miami requires security that is consistent across the entire system. How does the fixed network data collection system secure communications between the endpoint and the head-end system?
- 3.10.14 City of North Miami requires an RF Propagation Analysis of the entire Utility service area with built in redundancy overlays (color coded) to include number of towers per service accounts.
- 3.10.15 City of North Miami requires three tower redundancy coverage over 50% of the Utility Service area.
- 3.10.16 City of North Miami has provided a list of the proposed City asset sites, and also the link to access the City's existing water meters (Appendix D) to assist in the propagation analysis. All other inquiries must be made in the form of an RFI.
- 3.10.17 City of North Miami will not accept any proposals that utilize a multiple endpoint hopping system "Mesh Network".
- 3.10.18 The proposed AMI system should be expandable for other uses such as: other metered municipal flows, traffic monitoring, street light management, vehicle routing management, wastewater flow monitoring and water usage comparison for inflow/infiltration reduction, Sanitary Sewer Overflow (SSO) Monitoring, improved mobility, lift station telemetry, and irrigation monitoring for water loss tracking purposes. Discuss system capabilities for implementing such uses.

3.11 ANALYTICS SOFTWARE

- 3.11.1. The City of North Miami requires that their Enterprise Resource Planning (ERP) system be compatible with the proposed AMI system software. The proposed system shall include seamless integration of automatic meter reading data with the City's billing software including data sharing protocol and any software customization necessary to ensure existing water billing software produces complete and accurate invoices to customers without interruption. Please list all ERP systems that are compatible with your system software. Please describe your system integration

procedures and the way that a utility employee will see the AMI data. How will employees accomplish daily activities such as:

- Reconciling bill complaints
 - Recognizing possible leaks
 - Creating new bills for move-out
 - Identifying usage in unoccupied locations
- 3.11.2. City of North Miami billing department employees and customer service representative need accurate, up-to-date data about individual customers/single endpoints or a group of endpoints. City of North Miami staff needs accurate, complete information about routes, groups of customers, and the system as a whole. Please describe, including screen shots, how each of these sets of employees will find and use the information they require.
- 3.11.3. City of North Miami requires proof of system performance. Please describe how your software solutions tracks system performance and reports it to the City of North Miami.
- 3.11.4. City of North Miami anticipates population growth with the life of this AMI system. What tools do you provide to help the City of North Miami expand the network based on future growth? Please note any features allow this ability are “optional” or “extra” including price difference.
- 3.11.5. As part of our commitment to system integrity and accuracy, City of North Miami requires the ability to identify tampers such as usage on an inactive meter or no usage on an active meter. Please describe your system’s capabilities in this area.
- 3.11.6. As part of our commitment to system integrity and conservation, City of North Miami requires the ability to conduct district metering analysis. Please describe the way your system offers district metering analysis.
- 3.11.7. City of North Miami requires that Interval data be accessible in multiple views. Please describe the way in which your system offers all of the following views: Hourly, Daily, Weekly, as well as current billing period, any of the above compared to a previous period, filtered by week, weekend, holidays, etc.
- 3.11.8. City of North Miami requires the ability to schedule reports to be run and e-mailed to customers.
- 3.11.9. City of North Miami requires that the software have the ability to check for reading anomalies (high/low) and report them.
- 3.11.10. City of North Miami requires leak detection capabilities. Please describe the way your system reports leaks.

3.12 CONSUMER ENGAGEMENT

- 3.12.1 City of North Miami is looking for a Software-as-a-service provider to build a program that engages customer with one or more of the following goals:
- Improving customer satisfaction
 - Converting customers from print communications to digital communications
 - Making better use of AMI Data, in particular in alerts
 - Aiding in the transition from monthly to hourly (AMI) data
 - Improving water-use efficiency
 - Increasing program participation
 - Reaching low income customers to assist with affordability

- Implementing a comprehensive payment processing service
 - Increasing electronic billing adoption
- 3.12.2 City of North Miami requires that the vendor's consumer engagement interface provides near real-time data so that customers can view their own endpoints by logging onto a secure website and have access only to their own data. How often is data sent to your consumer engagement device?
- 3.12.3 City of North Miami require that the consumer engagement data be readable by end-customers on a variety of platforms. Is your consumer engagement interface available on a PC? A smartphone? Please describe all available options. Any "optional" or "extra" features must be noted as such, and the price difference listed here.
- 3.12.4 City of North Miami requires interactive budgeting capabilities for end-use customers. Please describe or illustrate your end-customer budget interface and describe its capabilities. Any "optional" or "extra" features must be noted as such, and the price difference listed here.
- 3.12.5 City of North Miami requires customers' ability to enter information about home size, square footage, number of persons in home and other useful information in comparing water usage of similar properties.
- 3.12.6 City of North Miami requires the ability to automatically detect leak events using AMI or Non-AMI data, automatically notify the customer of suspected leaks, engage the customer to investigate and resolve the leak with step-by-step instructions and resources, and provide resolution details to Utility through the Dashboard.
- 3.12.7 City of North Miami requires the ability to view dynamic, personalized information on why a bill might be high and what can be done to reduce future consumption.
- 3.12.8 City of North Miami requires the ability to disaggregated water consumption estimates for indoor and outdoor usage.
- 3.12.9 City of North Miami requires the ability to display water consumption data in context of temperature and precipitation data to inform users of how weather impacts water use.
- 3.12.10 City of North Miami requires the ability to estimate and display irrigation events in the consumption graph view.
- 3.12.11 City of North Miami requires an Interactive money-saving recommendation library, customized for each account profile and configurable by the Utility with step-by-step implementation instructions, informational links and videos, dynamic estimates of savings potential in GPD and dollars per year, and ability to sign up for, and keep track of, money saving activities. Library should highlight and rotate most relevant savings actions for customers based on the customer's profile and the season

3.13 WATER LOSS MANAGEMENT SYSTEM

- 3.13.1 City of North Miami requires a permanent monitoring integrated distribution level leak detection system. Please describe how your system is integrated into the proposed system.
- 3.13.2 City of North Miami requires leak detection system software that prioritizes leaks by severity. Please describe the reports provided by your leak detection software. How often are they generated?
- 3.13.3 Please describe the functionality of your leak detection system on City of North Miami existing steel distribution pipes. Please describe the functionality of your leak detection system on City of North Miami existing PVC service lines.
- 3.13.4 City of North Miami requires that the leak detection system be hosted and accessible in the field. Please describe how your system meets these requirements.

- 3.13.5 City of North Miami requires a leak management system that can record history of previous leaks/repairs at sensor locations. Please describe how your system generates such data and reports.
- 3.13.6 City of North Miami requires the leak detection sensors to have a minimum of 10 year battery life and must be completely submersible without impacting sensor integrity or performance.
- 3.13.7 City of North Miami requires a web-based user interface (UI) that displays a digital map of the service territory with each sensor location properly identified with GPS coordinates. UI must also display leak status for each sensor with an appropriate legend, such as: red for probably leak, yellow for possible leak and green for no leak likely.
- 3.13.8 City of North Miami requires that the leak sensor be readable with a two-way radio controller. Digital leak sensors must: employ a two-way, multi-band radio protocol transmitting and receiving on licensed and non-licensed frequencies; use advanced frequency-hopping spread spectrum techniques to avoid interference; use advanced direct sequence techniques to increase range; and be approved by the FCC for non-licensed operation under FCC rules part 15.247 in the U.S. or equivalent applicable rules in other territories.
- 3.13.9 City of North Miami requires that the leak sensors have a self-calibrating, real-time calendar clock for implementation of nighttime recording and power management.
- 3.13.10 City of North Miami requires that the leak sensors record vibrations during the night a minimum of 256 times over a 4-hour period in order to characterize nighttime vibrations in the environment of the sensor.
- 3.13.11 City of North Miami requires that the analysis software include computation of a leak status for every acoustic leak detection sensor. The leak status is derived from a leak index, which is a number between 0 and 99 that represents the relative likelihood of there being a leak in the vicinity of the acoustic leak detection sensor.
- 3.13.12 City of North Miami requires that bidders must offer 24 hour per day customer support, 7 days a week. Specify details of the vendor's support package.

3.14 DISPLACEMENT RESIDENTIAL WATER METERS

- 3.14.1 All meters offered must comply with the latest NSF 372 standards. These specifications cover cold water meters and the materials and workmanship employed in their fabrication. The displacement meters covered are known as nutating disc meters and are positive in action in that the discs displace or carries over a fixed quantity of water for each nutation of the disc when operated under positive pressure. Only nutating disc meters offering bronze bodies conforming to NSF 372 standards are acceptable. Displacement meters with coatings applied on their housing bodies to meet NSF 372 standards are not acceptable.
- 3.14.2 An affidavit from the manufacturer that the meters furnished under the purchaser's order comply with all applicable requirements of AWWA specifications and these detailed specifications.
- 3.14.3 All meters shall have a bronze outer case with a separate removable bottom plate made of bronze or polymer material for meter sizes 5/8" x 3/4" and bronze for 1" meters. A bronze removable top plate shall be supplied for larger size meters. The size, model, and direction of flow shall be molded in the upper casing of the meter housing. Meters shall meet AWWA standards as it applies to working pressure and shall be in conformance to NSF 372 standards.
- 3.14.4 The outer case shall be so designed to accept either a totally sealed straight reading or digital absolute encoder register as described in these specifications.
- 3.14.5 1 1/2" and 2" meters shall be equipped with female threads or oval flanges. Oval flanged meters shall have a casted in place a 1" NPT threaded test plug, for inline field testing, or pressure checks and shall accept the register configurations stated above.

- 3.14.6 All external closures shall be designed for easy removal after long service. Special torx tamper style seal screws shall be available and provided. Plastic push through pins are not acceptable. Bolts to secure the top and bottom plates to the meter body shall be made of non-corrosive stainless steel.
- 3.14.7 All meters shall have an absolute encoder register that is permanently sealed using a glass reading dome and brass or stainless steel housing, reading in US gallons. The encoder register shall incorporate a sweep hand and leak indicator on the dial face. The encoder register shall have a plastic lid with the meter serial number stamped on it. The encoder register shall be designed with a resolution encoder which includes eight digit resolution to AMR/AMI Endpoints and the option of four, five, six, seven or eight-dial resolution. The Encoder register shall be mechanical, LCD or LED will not be accepted.
- 3.14.8 The measuring chambers shall be self-contained units smoothly finished, firmly seated, easily removed from the main cases, and shall not be a part of the main case. The measuring chamber, 5/8" through 2", shall be made of a dimensionally stable reinforced thermoplastic. They shall be of two-piece snap joint design and shall be secured in the main casing so that the accuracy of the meter will not be affected by any distortion of the cases that may occur when operating under pressures to 150 psi.
- 3.14.9 The measuring device shall be made of a suitable synthetic polymer as near the specific gravity of water as possible. It shall be smoothly finished and shall be fitted accurately into the measuring chamber. The disc style shall be equipped with a thrust roller and disc spindle. The disc nutations shall not exceed those listed below.
- 3.14.10 All meters shall be provided with strainer screens of rigid non-ferrous material which fit snugly, are easy to remove, and have an effective straining area at least double that of the main-case inlet.
- 3.14.11 All meters offered shall meet or exceed the latest AWWA accuracy standards for new water meters.
- 3.14.12 Meters supplied under these specifications shall operate without leakage or damage to any part at a working pressure of 150 psi.
- 3.14.13 All bids shall include the manufacturers nationally published warranty.
- 3.14.14 City of North Miami requires credit for meters that are being changed out and disposed of. The vendor shall provide free crates for the storage of the scrap meters, make arrangements for the pick-up of the scrap meters and the issue a check to City of North Miami within 2 weeks of the coordinated pick-up date. Pricing shall be included per meter on the bid schedule in accordance with the size of the meter.

3.15 SOLID STATE RESIDENTIAL WATER METERS

- 3.15.1 This specification covers Cold Water Ultrasonic Meter in sizes 5/8", 5/8" x 3/4", 1", and the material and workmanship employed in their fabrication. The meter must utilize ultrasonic measurement technology and have no moving parts within the meter.
- 3.15.2 The basis for measurement is the use of ultrasonic signals sent consecutively in forward and reverse directions of flow. Velocity is determined by measuring the time difference between the measurement in the forward and reverse direction. Flow totalization can then be calculated from the measure flow velocity using water temperature and pipe diameter. The meter is all electronic with totally potted circuitry, display and battery. There are no moving parts to wear or replace and no part of the meter is removable or serviceable.
- 3.15.3 The purchaser may require, in their supplemental specifications, an affidavit from the manufacturer or vendor that the meters furnished under the purchaser's order comply with all applicable

requirements of this specification. Failure to meet any part of the specification shall be sufficient cause for rejection.

- 3.15.4 Meters supplied under this specification shall operate without leakage or damage at a working pressure of 175 psi.
- 3.15.5 The housing shall be lead-free, made of bronze, stainless steel, and shall be designed so that at a working pressure of 175 psi, any distortion will not affect the accuracy of the meter. Metering tube shall not be repaired in any manner. The flow direction and meter size shall also be cast in the meter tube and the inlet and outlet shall have a common axis.
- 3.15.6 The ultrasonic metering insert shall be self-contained within the meter flow tube, seated, and not removable. The insert shall be secured to the main case, providing a method of minimizing turbulence and cleaning the reflectors, so that the accuracy of the meter will not be affected by any distortions of the case when operating at a pressure of 175 psi. The metering insert shall be made of engineered polymer and stainless steel and the ultrasonic transducers shall be wetted components that extend through the meter tube and shall have a surface of stainless steel.
- 3.15.7 The electronic circuit shall be micro-processor based and include a non-replaceable battery, and non-volatile memory capable of storing all programmable data and accumulated data. The circuit shall control the ultrasonic transducers. No field programming or calibration shall be necessary. The entire meter circuit and related components shall be fully potted and sealed from water intrusion. No components shall require service or replacement over the life of the meter. For reliability, the use of inductive coil technology shall not be permitted with an electronic residential meter.
- 3.15.8 The name of the manufacturer shall be permanently molded and the serial number shall be imprinted on the lid of the register box. The lid and shroud components shall overlap to protect the lens. Register box enclosures and lids shall be made of engineered polymer.
- 3.15.9 The Register shall be encased in an integral non-corrosive polymer housing, with the electronics, display, and battery completely potted within. It must be permanently epoxy sealed with a cured in place hard epoxy to provide moisture resistance to flooded pit or submerged conditions. The permanent seal between the lens and non-corrosive plastic housing shall utilize an adhesive seal.
- 3.15.10 The Register shall be an integral part of the meter assembly. The register must be available as factory pre-wired to an endpoint, or factory pre-wired to an inline connector that can be used to connect to an endpoint.
- 3.15.11 The Register shall consist of an electronic local display combined with electronic circuitry to provide either a high resolution absolute encoder output. This electronic register assembly shall transmit a signal through properly shielded (grounded) transmission wire for electronic reading connectivity.
- 3.15.12 The High Resolution Absolute Encoder Register option, available for the engineered polymer and stainless steel meters, shall use an industry ASCII protocol. Capable of sending a 9-digit encoder output to the endpoint as well as extended status messages. Resolution being sent to the reading software is based on the output of the endpoint.
- 3.15.13 The display shall be a straight reading, permanently sealed electronic LCD with digits 0.25 inches high. The display will contain 9 digits plus a decimal point and display consumption, units of measure, rate of flow and alarm information. The digital display shall provide a totalized consumption resolution to 0.01 gallons.
- 3.15.14 The size, model, and direction of flow through the meters shall be permanently visible on the topside of all meter displays. The units of registration, U.S. gallons, cubic feet, or meters cubed shall also be designated on the Register display. The enhanced resolution of the totalized flow display can be utilized as a flow indicator for leak detection.

- 3.15.15 The Register shall have a lid that covers the display face for added protection and optional identification of serial number.
- 3.15.16 The meter shall register not less than 98.5% and not more than 101.5% of the water actually passed through the meter. At the extended low test flow rate, the meter shall register not less than 97.0% and not more than 103.0% of the water actually passed through the meter.

3.16 WATER SERVICE CONNECTIONS AND METER BOX REPLACEMENT

- 3.16.1 The project includes repairing or replacing associated water service piping and water meter boxes with lids as needed to provide complete and acceptable water service connections. Include all costs associated with maintenance of vehicular and pedestrian traffic and all other appurtenances necessary for a complete water service repair and meter box replacement. For bidding purposes, assume a 5-foot repair with HDPE piping. Bid water service connections, meter box and lid replacements, and meter box lid replacements only per the quantities shown on the Price Proposal Form. Describe your experience, methodology, and the equipment needed to perform water service connection repairs and meter box replacement in the field.
- 3.16.2 Water service repair or replacement includes all labor, equipment, materials, location and coordination of all existing utilities prior to construction, water service repair, existing service piping removal and disposal, water service curb stops, HDPE service piping, fittings, couplings, taps, connection to water meter, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading, trench restoration, associated site/sidewalk restoration, safety, disinfection, pressure testing, and repair or replacement of existing utilities impacted or damaged during construction for a complete water service repair. Any item not specified shall be considered incidental to the work. Confirm acceptance on compliance table.
- 3.16.3 Meter box and lid replacement and meter box lid replacement only includes all labor, equipment, materials, location and coordination of all existing utilities prior to removal and installation, new meter boxes with lids, work associated with replacing existing meter boxes with new meter boxes, lids, existing meter box removal and disposal, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading, associated site/sidewalk restoration, safety, and repair or replacement of existing utilities impacted or damaged during construction for a complete installation. Any item not specified shall be considered incidental to the work. Confirm acceptance on compliance table.
- 3.16.4 For all water service connection and meter box replacement work, the Miami-Dade Standard Specifications and Details for Design and Construction of water system improvements, latest edition are hereby incorporated by reference and the Contractor shall comply with all requirements. Actual field conditions will vary from the standard and shall not alter the requirement to include all modifications to the existing service connections, meter boxes, lids, and other appurtenances to facilitate installation of the water meter system. Shop Drawings will be required for approval prior to performing any water system improvements. Confirm acceptance on compliance table.
- 3.16.5 Old piping shall not be a grounds for failure to complete a meter installation. Only when existing piping is leaking or deteriorated beyond the criteria of 5 feet discussed above will old piping be accepted as a reason for not replacing the meter. If such piping is found, Proposer shall notify the City and return to install the meter when notified the condition has been corrected. Confirm acceptance on compliance table.

END OF SECTION

SECTION 4.0

SCOPE OF WORK

4.1 SCOPE OF WORK

- 4.1.1 The bidder must provide the following scope of work to meet City of North Miami's objective.

4.2 EXPERIENCED PROJECT MANAGEMENT

- 4.2.1 The bidder, and its representatives, shall have a proven program of professional project management to ensure detailed follow-through for successful execution of system installations. Project managers shall be experienced in managing the design, installation and optimization of systems. Project management experience shall include system integration capabilities and any necessary training support.
- 4.2.2 Selected vendor's authorized distributor is to provide local technical support and project management for 1 year after initial system implementation.
- 4.2.3 Project Management will be responsible for working with Utilities and Customer Service to develop Standard Operating Procedures (SOP's) for post implementation maintenance.
- 4.2.4 Due to environmental conditions that are unique to Southeast Florida, the Project Management must provide a minimum of 3 references in Southeast Florida including Dade, Broward, and Palm Beach Counties.
- 4.2.5 Describe your experience in managing systems such as those being proposed.

4.3 SYSTEM CONFIGURATION

- 4.3.1. The bidder selected shall provide a preliminary study team that works with City of North Miami to determine exact requirements and recommends a configuration solution. This team will deal with the entire project, including an agreed-upon pilot study and phased approach to implementation, as required. Please describe your experience and capabilities to provide this study team.

4.4 PILOT STUDY

- 4.4.1. As discussed in this RFP, the City plans to install the proposed AMI system as a multi-phase program, but is interested in the successful Respondent providing and performing an initial pilot study to assist in evaluating the proposed AMI system. Confirm acceptance on compliance table.
- 4.4.2. For the pilot study, provide as part of your pricing proposal, all costs to provide and perform the pilot study including, but not limited to, costs for hardware configuration setup, operating system and software installation, parameter setups, definition of required reports, and development of input and output files. The pricing proposal is setup for Respondent's to provide pricing for subsequent phases as well. Confirm acceptance on compliance table.
- 4.4.3. The pilot installation will cover 1,200 residential meters and all mounting hardware, meter boxes, meter box lids, and water service piping as specified in this document. The intent is for the successful Respondent to provide, install, operate, and monitor the pilot system over the course of 6 months. As part of the monitoring process, the successful Respondent will be required to provide monthly system health reports by the manufacturer or manufacturing representative for the meters, endpoints and collection equipment including, but not limited to, network components, software, and hardware. Confirm acceptance on compliance table.
- 4.4.4. As part of the pilot study, the Respondent will be required to confirm compatibility with the City's billing software as discussed in this RFP, billing system interface requirements, application requirements, platforms supported, and network management responsibilities. The Respondent will

be fully responsible for proposing any pricing or services for billing software integration and meter data electronic transfer required for the pilot and the subsequent project phase. Confirm acceptance on compliance table.

- 4.4.5. The 1,200 meters included as part of the pilot study will be location in the Golf Park area. Pilot study limits are within NW 119th Street for the northern boundary, NW 14th Avenue for the eastern boundary, NW 107th Street for the southern boundary, and NW 27th Avenue for the western boundary. The Respondent is responsible to review this pilot study area as needed to understand existing conditions, project installation requirements, and pilot system network setup. Confirm acceptance on compliance table.
- 4.4.6. The intent of the pilot study is to simulate and confirm that the proposed AMI system complies with all aspects of the RFP, the system is consistent with the Respondent's compliance table responses, and that system performance is acceptable to the City. No third-party solutions will be accepted for this pilot. All collection system devices and software will be provided by the manufacturer. Confirm acceptance on compliance table.
- 4.4.7. If the pilot study results do not confirm compliance with the RFP requirements and associated compliance table responses, the City reserves the right to terminate the contract, and at the City Manager's or designee's discretion, begin negotiations with the next lowest responsible and responsive Respondent. Assuming the successful Respondent was initially selected based on acceptable compliance table responses provided by that Respondent, all costs of the pilot study will be the responsibility of the Respondent. No Respondent shall have any rights against the City arising from such termination thereof. Confirm acceptance on compliance table.
- 4.4.8. Describe your standard process in which the project team implements, operates, and monitors AMI pilot systems as described in this RFP.

4.5 SYSTEM DESIGN

- 4.5.1. For the first phase and subsequent installations, describe your standard process in which the project team decides what system configuration, installation options, performance criteria and redundancy will work best. This includes billing system interface requirements, application requirements, platforms supported, and network management responsibilities.

4.6 CONFIGURATION AND SET UP

- 4.6.1. For the first phase and subsequent installations, provide as part of your pricing proposal, the expected cost for hardware software, configuration setup, operating system and software installation, parameter setups, definition of required reports, and development of input and output files. If your software must be customized, please provide those costs in the system pricing. The Respondent must also include and will be fully responsible for all costs or services for billing software integration, meter data electronic transfer, and all annual fees for billing interface as required for the pilot and the subsequent project phase.

4.7 INSTALLATION

- 4.7.1. For the first phase and subsequent installations, please provide as part of your pricing proposal all aspects of the installation and construction of systems used to provide the proposed meter reading services. Please detail assumptions on the bidder's responsibilities and City of North Miami's responsibilities during the installation and construction phase. These assumptions must include responsibilities for meter retrofit, meter replacement, and field installations.
- 4.7.2. Electronic Data Collection
 - 4.7.2.1. Contractor shall utilize a Field Computer or electronic device for the specific purpose of collecting new meter information. The field computer shall be equipped with a barcode code scanner, camera

and integrated GPS, at a minimum, to ensure data collection accuracy and integrity. It is acceptable to utilize a hardcopy form in the field for the purpose of production planning and supervision, but at no time should the hardcopy be used to solely collect the new meter information to be later hand keyed into a database for data processing, this is specifically to prevent human error in the field and in the office.

- 4.7.2.2. It is required that a job Forman, or crew leader, perform the data collection at each location, to include a final quality control review of the installation upon completion. A picture shall be taken of old meter read and new meter set.
- 4.7.2.3. Contractor shall have the means to automate and perform a thorough quality control review on a daily basis. The specifics are noted below, at a minimum, and must be able to demonstrate their process in detail if required.
 - Endpoint – Verify there are no duplicates in the system.
 - Endpoint – Utilize Certification File from manufacture and / or supplier to ensure data accuracy.
 - New Meter – Verify there are no duplicates in the system.
 - New Meter – Utilize Certification File from manufacture and / or supplier to ensure data accuracy.
 - Final Read – Compare final read to a threshold, including an upper and lower limit, to prevent erroneous reads from inadvertently entering billing.
 - Meter Attributes – Utilize Certification File from manufacture and / or supplier to ensure data accuracy.

4.7.3. Reporting:

- 4.7.3.1. Contractor shall prepare nightly reports to reflect the day's production.
- 4.7.3.2. Contractor shall prepare weekly project progress reports to communicate inventory levels as well as project progress.
- 4.7.3.3. Contractor shall prepare weekly and / or monthly system integrity reports to include route/book saturation levels as well as read rates.

4.7.4. Experience:

- 4.7.4.1. Contractor shall have a minimum of five (5) years of experience performing meter installations with AMR and AMI type systems.
- 4.7.4.2. Contractor shall have a verifiable experience record of having installed 15,000 meters per year, during the previous ten (10) years of this RFP.
- 4.7.4.3. Respondent must be a Certified General Contractor and/or Certified Underground Utility and Excavation Contractor. All license information must be active and appear on the State of Florida Department of Business and Professional Regulation website for verification.

4.8 WATER SERVICE CONNECTIONS AND METER BOX REPLACEMENT

- 4.8.1. The pilot study and subsequent phase of the project includes repairing or replacing associated water service piping, meter boxes with lids, and meter box lid replacement only as needed to provide complete and acceptable water service connections. Describe your experience, methodology, and the equipment needed to perform water service connection repairs and meter box replacement in the field.

4.9 TRAINING

- 4.9.1. City of North Miami requires training on all facets of the AMI System. Please describe how your services conducts this training.

- 4.9.2. City of North Miami requires training on the Hand held meter reading system.
- 4.9.3. City of North Miami requires training on the Mobile meter reading system.
- 4.9.4. City of North Miami requires training on Hand held and Mobile meter reading Software.
- 4.9.5. City of North Miami requires training on the Fixed Network Administrative Software.
- 4.9.6. City of North Miami requires training on the Network Monitoring.
- 4.9.7. City of North Miami requires training on the Reporting and Analysis Processes
- 4.9.8. City of North Miami requires training on the Endpoint Installation and Maintenance
- 4.9.9. City of North Miami requires training on Field Maintenance Procedures for Meter boxes, endpoints and Network hardware

4.10 DOCUMENTATION

- 4.10.1. Please describe documentation provided with the system that will cover all phases of the system operation on all components and software in the system.

4.11 SYSTEM SUPPORT

- 4.11.1. The bidder must provide the option for contracting system support for 24 hours per day, 7 days per week. Support staff shall be trained in system operations and troubleshooting. Support shall be provided via telephone, remote PC connections and email. Online self-support is beneficial.

4.12 SYSTEM PRICING

- 4.12.1. Please describe in detail the pricing for the services proposed and detail any assumptions made in the proposed solution and pricing. Please provide any costs associated with software customizations needed to meet the technical requirements. The Respondent must also include and will be fully responsible for all costs or services for billing software integration, meter data electronic transfer, and all annual fees for billing interface as required for the pilot and the subsequent project phase.

4.13 WARRANTY AND CUSTOMER SUPPORT

- 4.13.1. Specify the warranty period on all applicable products.
- 4.13.2. State how long the bidder has supported existing AMI product lines.
- 4.13.3. Bidder must offer 24 hour per day customer support, 7 days a week. Specify details of the bidder's support package.
- 4.13.4. The proposed business transaction shall be a purchase of the system by City of North Miami.
- 4.13.5. City of North Miami shall own all data collected by the system. Data collected by the system shall not be used for any purpose without the approval of City of North Miami.

4.14 COMPANY STABILITY AND MARKET STANDING

- 4.14.1. Company must have been in the business of providing AMR/AMI solutions for at least five (5) years and have at least 1,000 utility AMR/AMI customers.
- 4.14.2. Provide detailed company financial and market standing information.

END OF SECTION

SECTION 5.0

EVALUATION/SELECTION PROCESS

5.1 REVIEW OF PROPOSALS FOR RESPONSIVENESS

This REQUEST FOR PROPOSALS ("RFP") consists of two parts; a technical/qualifications component and a price component, both of which when combined constitute the Proposer's response to the RFP. Proposers submitting a response to this RFP must submit both the technical/qualifications and price components. The price component is Appendix C - Price Proposal / Schedule of Values. When providing hard copies of the response to this RFP, the price component (Appendix C) must be submitted in a sealed envelope to be opened after review and scoring of the technical/qualifications component. When providing the electronic response to this RFP, the technical/qualification components and the price component responses must be submitted in a file folders on the CD-ROM or Flash Drive.

Each Proposal will be reviewed to determine if the Proposal is responsive to the submission requirements outlined in the Solicitation. A responsive Proposal is one which follows the requirements of this Solicitation that includes all documentation to be submitted in the format outlined in this Solicitation, is of timely submission, and has the appropriate signatures as required on each document. Failure to comply with these requirements may result in the Proposal being deemed non-responsive. The Contract will be awarded to the lowest responsible and responsive proposer whose Proposal best serves the interest of the City and represents the best values in conformity with Chapter 7, Article III of the City code.

5.2 MINIMUM QUALIFICATION

To be eligible to respond to this Solicitation, the Proposer must demonstrate sufficient capacity, resources and experience managing the design, pilot study, equipment supply, field installation, and optimization of an Advanced Metering Infrastructure Program to rehabilitate or replace the City's existing water meters. Any Proposer that fails to meet all the following minimum qualification requirements may be noted as "NON-RESPONSIVE" and will not be evaluated / scored.

- Respondents must be authorized to do business in the State of Florida and must be able to provide supporting documents.
- Respondents must have ten (10) years' experience in their respective discipline(s).
- Respondent must provide a least three (3) references of clients to which it has provided services similar in scope to those in this solicitation within the last five (5) years.
- Respondents must be a Certified General Contractor and/or Certified Underground Utility and Excavation Contractor. All license information must be active and appear on the State of Florida Department of Business and Professional Regulation website for verification.
- Must meet minimum insurance and bonding requirements

5.3 EVALUATION PROCESS

An evaluation/selection committee appointed by the City Purchasing Department ("Evaluation Committee") shall review the responses to this Solicitation for compliance with the requirements and provide an objective evaluation of all Respondents. The Evaluation Committee's initial evaluation of Respondents shall be on the basis of the specific Project needs and the professional services offered

by the Respondent as stated in the Qualifying Information submitted, in accordance with those criteria listed below.

5.4 **SELECTION CRITERIA**

Criteria will be scored on a scale of “0” to “100” per evaluator with the maximum number of points available for each criterion as noted in this section. The maximum number of points to be scored under this process is **100 points per committee member**. Scoring is based on a point total per evaluator and not a percentage. The highest ranking Respondent will be determined by using a combination of Respondent’s total scores for criteria listed. Selection will not be based solely on lowest price. The City will put each Proposal through a process of evaluation to determine the Respondent’s responsiveness to City’s needs. Criteria to be considered include:

Criteria	Maximum Points
AMI Program - Qualifications and Experience	25
AMI Program – Compliance Table	25
AMI System Overview / Project Approach / Methodology, Approach, and Outreach Effort to Contract with Local Respondents and Residents	20
Price Proposal / Schedule of Values	20
References	10
Evaluation Score:	100

5.4.1. **AMI PROGRAM - QUALIFICATIONS & EXPERIENCE (MAXIMUM POINTS 25 EACH)**

Provide a statement of qualifications for the Vendor, a description of services provided by your organization, and a statement of the extent of experience/history providing the services requested by this Solicitation. Provide an explanation of why the Proposer is the best qualified to perform the Contract and demonstrate its qualifications outlining how the firm meets or exceeds the requirements of this RFP.

As a large portion of this AMI program is the installation of the system components, provide a statement of qualifications for the sub-contractor/General Contracting organization, a statement of the size of Contractor, a description of services provided by the contracting organization, and a statement of the extent of experience/history providing the services requested by this Solicitation. The General Contactor performing the system installation must be properly licensed to engage in contracting at the time of Proposal submission. The Respondent shall submit copies of the General Contractors licenses as applicable.

List the professional qualifications for each individual that would be assigned to provide services requested by this Solicitation. In lieu of listing this information, you may submit a resume or curriculum vitae for each such individual. Provide a resumes for all proposed personnel on the Respondent’s team that will be assigned to the Contract to meet the requirements of the Solicitation documents. The resume shall concentrate on the person’s experience and qualifications as it relates to the requirements for the Project. Information on resumes shall contain comprehensive data that is easily verifiable.

5.4.2. **AMI PROGRAM – COMPLIANCE TABLE (MAXIMUM POINTS 25 EACH)**

Complete Product Capability and associated Note columns on **AMI Program - Compliance Table (Appendix B)**. Answers in the Product Capability column are to be in the following form:

- Comply
- Alternate – include explanation
- Exception – include explanation
- Does not comply

Proposer must demonstrate sufficient capacity, resources and experience managing the design, pilot study, equipment supply, field installation, and optimization of an Advanced Metering Infrastructure Program to rehabilitate or replace the City's existing water meters. Any Proposer that fails to meet all the minimum qualification requirements may be noted as "NON-RESPONSIVE" and will not be evaluated / scored.

5.4.3. AMI SYSTEM OVERVIEW / PROJECT APPROACH / METHODOLOGY, APPROACH, AND OUTREACH EFFORT TO CONTRACT WITH LOCAL RESPONDENTS AND RESIDENTS (MAXIMUM POINTS 20)

The Respondent will submit a system overview of the proposed Advanced Metering Infrastructure (AMI) Program with associated pilot study. The system overview shall provide a description of the proposed AMI program as well as the proposed metering equipment, endpoints, fixed base network components, system software, etc.

The System Overview will include a proposed project approach and implementation plan that will demonstrate the Respondent's ability to meet the services required by the City. Discuss how the AMI system will be implemented providing a detailed description of the essential performance characteristics proposed; identifying the portions of the Work that will be subcontracted; and demonstrating how the proposed methodology meets or exceeds the specifications. Relevant considerations include system component quality and operation, evaluation of existing City infrastructure, hardware and software implementation, coordination with City departments, system training, initial and long term program support, and public involvement programs.

In addition, the City is seeking Respondents that are willing participants in the City's goal to develop subcontracting and employment opportunities to local businesses and residents as defined by Section 7-151, City Code.

- Provide a plan for outreach and subcontracting with local Respondents and hiring local residents as a part of this Project
- Indicate a commitment to this effort in terms of a percentage of the total price Proposal.

The City retains the right to request any additional information pertaining to the Proposer's ability, qualifications, and procedures used to accomplish all Work under the Contract as it deems necessary to ensure safe and satisfactory Work.

Identify how you will meet all other aspects of the Scope of Work and related requirements. List any items you cannot provide.

5.4.4. PRICE PROPOSAL / SCHEDULE OF VALUES (MAXIMUM POINTS 20)

This is intended to be a multi-year project to ultimately retrofit or replace approximately 22,000 two inch (2") and smaller residential water meters throughout the City of North Miami, but the project also includes an initial pilot study phase provided and performed by the successful Respondent to assist in evaluating the proposed AMI system. This Price Proposal is for the pilot study and first installation phase only and includes addressing approximately 5,000 water meters in addition to establishing the

complete fixed base network with meter data management and web hosting. The total quantity of meters actually installed is subject to change at the sole discretion of the City of North Miami.

Subsequent installation phases will include installing the remaining two inch (2") and smaller residential water meters not installed as part of the pilot study or first installation phase of the project. The number of future phases as well as the number of meters installed per phase will be a function of the work completed in the pilot study, the first installation phase and available City of North Miami project funding.

A total Price Proposal (proposed "Contract Price") shall be submitted in a separate sealed envelope and also a separate electronic file folder on the digitized copy of the **Price Proposal Form (Appendix C)**. The Price Proposal Form shall consist of a lump sum, fixed fee amount based on the pilot study and first installation phase breakdown provided. The Contract Price shall be based upon and include any and all costs or expenses to be incurred by the Respondent in implementing, fulfilling and completing all aspects of the pilot study and first installation phase of the AMI program. The information must include, but not be limited to the design, pilot study, permitting, furnishing and the installation of all required AMI system components such as new water meters, existing water meter rehabilitation, meter boxes, meter box lids, complete AMI infrastructure, software, system implementation, training, and program support in accordance with the requirements set forth in the City's REQUEST FOR PROPOSALS and the requirement of any and all agencies or organizations having jurisdiction for Project review, permit approval, construction, activation, use or operation of the Project, or use of the property on which the Project is located.

The Contract Price, in addition to all direct costs and expenses, shall include all other indirect costs and expenses including but not limited to, the Respondent's general, administrative and overhead costs, Project management and supervisory costs, all fees, changes and taxes, labor, direct and indirect payroll costs, insurance and bond costs, cost of equipment, materials, tools, transportation, and service fee (profit).

Upon award of the Contract to the selected firm, the proposer will provide a Schedule of Values as part of the pre-construction meeting for review by the City. The intent of the Schedule of Values is to provide the City with a more detailed breakdown of the equipment and services included in the lump sum Contract Price for the pilot study and first installation phases. The total of the Schedule of Values will be the lump sum Contract Price for completing the Scope of Work in this Solicitation. As discussed in Section 4, if the pilot study results do not confirm compliance with the RFP requirements and associated compliance table responses, the City reserves the right to terminate the contract, and at the City Manager's or designee's discretion, begin negotiations with the next lowest responsible and responsive Respondent. Assuming the pilot study was initially accepted based on acceptable compliance table responses provided by the Respondent, all costs of the pilot study will be the responsibility of the of the Respondent. No respondent shall have any rights against the City arising from such termination thereof.

Include a detailed total system project schedule based upon the required propagation study, the 6 month pilot study, the 1-year installation schedule with a 1 year service contract. Alternates for displacement versus solid state meters will be evaluated and may or may not be awarded at the sole discretion of City. Alternates may be awarded separately or in combination as deemed to be in the best interest of City.

The respondent submitting the lowest lump sum cost will receive all possible points for this category. All other respondents will receive points proportionate to the lowest lump sum cost response. This point total will be calculated by dividing the lowest lump sum cost by the lump sum cost being evaluated with the result being multiplied by the 25 points to arrive at a cost score of less than the full score for price.

Example: $\text{Lowest Lump Sum Cost} / \text{Respondent's Lump Sum Cost} \times \text{Total Points for Price} = \text{Cost Score}$

Example: \$2,000,000/\$3,000,000 X 25 = 16.7 Cost Score

5.4.5. REFERENCES (MAXIMUM POINTS 10)

Provide at least three samples of the Respondent's similar completed projects. Provide three (3) references on the Reference Form A-14. Preferably, Florida Public Agency references for which the Proposer is currently providing, or has provided, Services within the last ten (10) years.

At least one (1) of the sample projects must confirm that the Vendor and their sub-contractor/General Contractor have previously worked together and completed a project as a team.

5.5 ORAL PRESENTATIONS

Respondents may be invited to provide an Oral Presentation as a part of the evaluation process for this Solicitation. The Evaluation Committee will schedule interviews only with selected Respondents. Notice of assigned presentation times will be communicated in advance to the Respondent, but may be given short notice of appearance. The purpose of the presentation will be to clarify the RFP response and ensure a mutual understanding of the Scope of Work. The oral presentation may clarify, but may not modify the prior written submission. Verbal exchanges between the presenter(s) and Evaluation Committee during presentations are intended only for purposes of providing clarification in response to questions from Evaluation Committee. These exchanges are not in any way be construed as a "negotiation" of terms by either party.

5.6 NEGOTIATIONS

The City may award a Contract on the basis of initial offers received, without discussions. Therefore, each initial offer should contain the Proposer's best terms from a monetary and technical standpoint.

Notwithstanding the foregoing, if the City and said Proposer(s) cannot reach agreement on a Contract, the City reserves the right to terminate negotiations and may, at the City Manager's or designee's discretion, begin negotiations with the next lowest responsible and responsive proposer. This process may continue until a contract acceptable to the City has been executed or all Proposals are rejected. No Proposer shall have any rights against the City arising from such negotiations or termination thereof.

Any Proposer recommended for negotiations may be required to provide to the City:

- 5.6.1. Its most recent certified business financial statements as of a date not earlier than the end of the Proposer's preceding official tax accounting period, together with a statement in writing, signed by a duly authorized representative, stating that the present financial condition is materially the same, or with an explanation for material change in the financial condition. A copy of the most recent business income tax return will be accepted if certified financial statements are unavailable.
- 5.6.2. Information concerning any prior or pending litigation, either civil or criminal, involving a governmental agency or which may affect the performance of services to be rendered herein, in which the Proposer, any of its employees or Subcontractors is or has been involved within the last three years.

5.7 LOCAL PREFERENCE / 10% TOTAL WORKFORCE CONSISTING OF NORTH MIAMI RESIDENTS / SUBCONTRACT WITH LOCAL PROPOSERS

The evaluation of competitive solicitations is subject to Section 7-151 of the City's Purchasing Code which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. To satisfy this requirement, the Respondent shall submit in writing its compliance with any of the following objective criteria (see Form A-3).

Pursuant to Section 7-151, a “Local Business” is defined as one of the following:

- a) A business located in the City with a current City business tax receipt issued prior to the City's issuance of the solicitation for supplies or services; or
- b) A business that has at least ten (10) percent of its total workforce residing in the City prior to the City's issuance of the solicitation for supplies or services; or
- c) A business that subcontracts at least ten (10) percent of the contractual amount of a City project with subcontractors who are physically located within the City (must submit Form A-3(a) as part of the Proposal).

The local business preference is used to assign a preference of ten (10) percent of the total evaluation point, or ten (10) percent of the total price to those Respondents who qualify for this preference.

Note: The Respondent seeking local business preference has the burden to show that it qualifies for the preference, to the satisfaction of the City, by submitting supporting documentation. Failure to do so may result in being considered ineligible for local business preference.

END OF SECTION

SECTION 6.0 PROPOSAL FORMAT

IT IS THE RESPONSIBILITY OF THE RESPONDENT TO ENSURE THAT THE PROPOSAL BEING SUBMITTED IS TIMELY, COMPLETE, INCLUSIVE OF ADDRESSING ALL OF THE REQUIREMENTS AND EVALUATION CRITERIA HEREIN.

PLEASE READ THE ENTIRE SOLICITATION BEFORE SUBMITTING A PROPOSAL.

6.1. GENERAL INSTRUCTIONS

This REQUEST FOR PROPOSALS (“RFP”) consists of two parts; a technical/qualifications component and a price component, both of which when combined constitute the Proposer’s response to the RFP. Proposers submitting a response to this RFP must submit both the technical/qualifications and price components.

Respondents should carefully follow the format and instructions outlined throughout this section, observing format requirements where indicated. All materials (except for plans and schematics, if any) are to be submitted on 8 1/2” X 11” papers, paginated and separated by tabs to identify each required section, neatly typed and double sided. All documents and information must be fully completed and signed as required. When submitting the one (1) complete scanned electronic copy on CD or DVD in adobe or Word format ensure it is labeled with your company’s name, Solicitation number and title.

Please be concise in all responses. If any category is NOT APPLICABLE, so expressly state. Proposals which do not include the required documents may be deemed NON-RESPONSIVE and may not be considered for evaluation.

6.1.1. COPIES

Please submit one (1) original bound Proposal, six (6) complete copies of the original Proposal and one (1) digital compact disk (CD) or USB Flash Drive. Please be sure to clearly mark “Original” as such. Copies of the Proposals will be distributed to the Evaluation Committee. If your Proposal copies are incomplete your Proposal may be deemed Non-Responsive.

6.1.2. SUBMISSION

Proposals are to be submitted in a sealed envelope bearing the name of the individual and/or company, and the address as well as the number and title of this Solicitation no later than the date and time specified in the Solicitation Timetable section, where shortly after a public opening will take place in the Council Chambers located on the 2nd floor of City Hall 776 NE 125th Street North Miami, FL 33161. This Solicitation will not be based solely on price. However, properly received Proposals will be announced at the public opening, and the opening of the Price Proposals will be at a later time. A list of Respondents shall be placed on the City’s website.

Address your Proposal to City of North Miami, Office of the City Clerk, 776 N E 125th Street, North Miami, Florida 33161.

6.2. **PROPOSAL FORMAT**

The Proposal must be in the following format. Failure to include responses to items #1 through #6 in this Section 6 may result in the proposer being deemed non-responsive and resulting in the Proposal not being considered.

Separated by a physical tab/divider each required and/or non-required document to ensure all necessary documents are not overlooked. You can label each tab as 1, 2, 3, and, etc.

LABEL EACH SECTION AS NUMBERED

1. COMPANY NARRATIVE (INFORMATION PURPOSES ONLY)

The Respondent shall provide a Narrative Description of the company and the project. Included as part of the narrative shall be the following information:

- Cover Page Form (**APPENDIX A**)
- Proof of insurance (see Contract Form A-7 and Section 2.6)

2. AMI PROGRAM - QUALIFICATION & EXPERIENCE (SELECTION CRITERIA, MAXIMUM POINTS 25)

Provide a statement of qualifications for the AMI Vendor and sub-contractor/General Contractor as discussed in Section 5.4.1. Proposer's relevant experience, qualifications & past performance.

3. AMI PROGRAM - COMPLIANCE TABLE (SELECTION CRITERIA, MAXIMUM POINTS 25)

Complete **AMI Program - Compliance Table (Appendix B)** as discussed in Section 5.4.2.

4. AMI SYSTEM OVERVIEW / PROJECT APPROACH / METHODOLOGY, APPROACH, AND OUTREACH EFFORT TO CONTRACT WITH LOCAL RESPONDENTS AND RESIDENTS (SELECTION CRITERIA, MAXIMUM POINTS 20)

Provide a system overview of the proposed Advanced Metering Infrastructure Program and associated pilot study as well as the Proposers methodology, approach, and effort to contract with local respondents and residents as discussed in Section 5.4.3. The system overview shall provide a description of the proposed AMI program as well as the proposed metering equipment, endpoints, fixed base network components, system software, etc.

5. PRICE PROPOSAL / SCHEDULE OF VALUE (SELECTION CRITERIA, MAXIMUM POINTS 20)

The Proposer will provide a **Price Proposal Form (Appendix C)** and Schedule of Values as discussed in Section 5.4.4. for review. **Submit the price component (Appendix C) in a sealed envelope.**

6. REFERENCES (SELECTION CRITERIA, MAXIMUM POINTS 10)

Provide at least three samples of the Respondent's similar completed projects. Provide three (3) references on the Reference Form A-14. Preferably Florida Public Agency references for which the Proposer is currently providing, or has provided, Services within the last ten (10) years. At least one (1) of the sample projects must confirm that the Vendor and their sub-contractor/General Contractor have previously worked together and completed a project as a team.

7. **LOCAL PREFERENCE / 10% TOTAL WORKFORCE CONSISTING OF NORTH MIAMI RESIDENTS / SUBCONTRACT WITH LOCAL PROPOSERS.**

The evaluation of competitive Solicitations is subject to Section 7-151, City Code which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. To satisfy this requirement, the Respondent shall respond in writing its compliance with the criteria and utilize the appropriate City Forms.

6.3. **APPENDIX FORMS**

At minimum each Proposer shall submit the below. Responses should correspond to each particular section and subsection of the Solicitation and should be labeled accordingly.

1. **COVER PAGE FORM (APPENDIX A)**

The Cover Page Form shall be submitted as part of the Solicitation. This Form must be completely and neatly filled-in. The Cover Page Form shall include the company name, identify the person authorized by law to render the Services (as registered with the State of Florida Division of Corporations) and title. In addition, the Respondent shall include the mailing address, phone number, fax number and e-mail address.

The Respondent shall identify one person of authority that we will receive all notifications from and will be contacted directly by the City as needed in reference to this Solicitation.

2. **AMI PROGRAM - COMPLIANCE TABLE (APPENDIX B)**

The Compliance Table shall be submitted as part of the Solicitation. This Form must be completely and neatly filled-in for the City's use in determining levels of compliance for technical and scope of work requirements. Answers in the product capability column are to be in the following form:

- Comply
- Alternate – include explanation
- Exception – include explanation
- Does not comply

3. **PRICE PROPOSAL FORM (APPENDIX C)**

A total Price Proposal (proposed "Contract Price") shall be submitted on the Price Proposal Form. **Submit the price component (Appendix C) in a separate sealed envelope and in the digitized copy it should be in a separate electronic file folder.** The Price Proposal Form shall consist of a lump sum, fixed fee amount based on the pilot study and first installation phase breakdown provided. The Contract Price shall be based upon and include any and all costs or expenses to be incurred by the Respondent in implementing, fulfilling, and completing all aspects of the pilot study and first installation phase of the AMI program.

The Contract Price in addition to all direct costs and expenses, shall include all other indirect costs and expenses including, but not limited to the Respondent's general administrative and overhead costs, Project management and supervisory costs, all fees, changes and taxes, labor, direct and indirect payroll costs, insurance and bond costs, cost of equipment, materials, tools, transportation, and service fee (profit).

Upon award of the Contract to the selected firm, the proposer will provide a Schedule of Values as part of the pre-construction meeting for review by the City. The intent of the Schedule of Values is to provide the City with a more detailed breakdown of the equipment and services included in the lump sum Contract Price for the pilot study and first installation phases. The total of the Schedule of Values will be the lump sum Contract Price for completing the Scope of Work in this Solicitation. As discussed in Section 4, if the pilot study results do not confirm compliance with the RFP requirements and associated compliance table responses, the City reserves the right to terminate the contract, and at the City Manager's or designee's discretion, begin negotiations with the next lowest responsible and responsive Respondent. Assuming the pilot study was initially accepted based on acceptable compliance table responses provided by the Respondent, all costs of the pilot study will be the responsibility of the of the Respondent. No respondent shall have any rights against the City arising from such termination thereof.

Include a detailed total system project schedule based upon the required propagation study, the 6 month pilot study, the 1-year installation schedule with a 1 year service contract. Alternates for displacement versus solid state meters will be evaluated and may or may not be awarded at the sole discretion of City. Alternates may be awarded separately or in combination as deemed to be in the best interest of City.

4. EXISTING WATER METER INVENTORY AND CITY ASSET SITES (APPENDIX D)

A list of the City's existing water meter inventory is available online as an electronic file. The water meter inventory is provided for the Proposer's convenience only and to assist the Proposer in developing an AMI project approach and propagation study. Appendix D includes the link to access the City's existing water meters, and also a list of the proposed City asset sites offered as potential locations for the fixed base network. It is the responsibility of the Respondent to determine if alternate or additional locations are required.

5. PROPOSAL SUBMITTAL CHECKLIST (APPENDIX E)

The Submittal Checklist shall be submitted as part of the Proposal. A checklist is provided merely for the convenience of the Proposer and may not be relied upon in lieu of the instructions or requirements provided in this Solicitation.

6.4. CONTRACT FORMS

All Contract forms must be completed (with all blanks filled in), executed, and properly notarized.

The following forms must be submitted in the following order:

A-1 Public Entity Crimes Affidavit

A-2 Non-Collusive Proposal Certificate

A-3 Local Preference Affidavit

A-3(a) Subcontractor Local Preference

A-5 Acknowledgement of Addenda

A-6 Proposer's Disclosure of Subcontractors and Suppliers

A-7 General Insurance Requirements

A-9 Bid Bond

A-10 Performance Bond

A-11 Labor and Material Payment Bond

A-14 References

All of our forms can now be accessed on our website at: <http://northmiamifl.gov/departments/purchasing/forms.aspx> **These forms are fill-in able forms. Please ensure to include all applicable forms with your Proposal documents, signed and notarized as required. Emailed forms will NOT be accepted.**

In regards to "Form A-5 Acknowledgement of addenda", it is the sole responsibility of the Respondent to check the City's website at http://northmiamifl.gov/departments/purchasing/current_bids_proposals.aspx for all applicable addendums.

END OF SECTION

SECTION 7.0
FORMS & APPENDICES





Appendix A
COVER PAGE & CONTACT PERSON INFORMATION

ADVANCED METERING INFRASTRUCTURE PROGRAM

RFP 12-18-19

Include this sheet as the very first page of your Proposal. Please complete the form in its entirety.

Legal Name of Proposer(s): _____

Doing Business As (DBA)
If applicable: _____

Federal Employee Identification
(FEIN) Number: _____

Mailing Address: _____

City, State, Zip Code: _____

Contact Name*: _____

Title: _____

Contact Email Address: _____

Contact Telephone Number: _____

Fax Number: _____

*The contact person indicated should be someone the City may contact for any questions or provide any correspondence related to this Solicitation.



1. I hereby certify that I am authorized to act on behalf of the Respondent, individual, partnership, corporation, or association making this Proposal and that all statements made in this document are true and correct to the best of my knowledge.
2. By submitting a proposal, the Respondent certifies that the Respondent has fully read and understands the proposal method and has full knowledge of the scope, nature, and quality of work to be performed.
3. Respondent, individual, partnership, corporation, or association responding to this Solicitation certifies that all statements made in this document are true and correct to the best of their knowledge. Also the Respondent agrees to hold this offer open for a period of one hundred and eighty (180) days from the deadline for receipt of Response.
4. Respondent understands and agrees to be bound by the conditions contained in this Solicitation and shall conform to all the requirements.

Name of Company: _____

Authorized Signature: _____

Title of Officer: _____



Appendix B
AMI PROGRAM – COMPLIANCE TABLE

ADVANCED METERING INFRASTRUCTURE PROGRAM

RFP 12-18-19

The following Compliance Table associated with the Technical specifications and Scope of Work shall be submitted as part of the Solicitation. This Form must be completely and neatly filled-in for the City's use in determining levels of compliance with the work requirements. Answers in the product capability column are to be in the following form:

- Comply
- Alternate – include explanation
- Exception – include explanation
- Does not comply

Appendix B can be found online for modification as needed.



Appendix B
AMI PROGRAM – COMPLIANCE TABLE – TECHNICAL SPECIFICATIONS

ADVANCED METERING INFRASTRUCTURE PROGRAM

RFP 12-18-19

3.3	Endpoints	Product Capability	Notes
3.3.1	The endpoint must be capable of operating in harsh environments. List the environmental specifications of the endpoint and describe its ability to withstand extreme high and low temperature conditions as well as its resistance to water intrusion. As a minimum, the endpoint must function accurately and not be damaged over an operating temperature range of -40 to +70 degrees Celsius.		
3.3.2	The endpoint must withstand submersion in one (1) meter of water for a minimum of 30 minutes in accordance with IPx7 testing, per IEC 529 (EN 60529).		
3.3.3	The endpoint must be designed to last in the field without need for servicing for a minimum of 20 years. Indicate the expected product life of the endpoint and provide any engineering data to support the claim.		
3.3.4	Describe the power supply utilized by the endpoint. Battery operated endpoints must have a battery design life of 20 years with engineering data to support the claim.		
3.3.5	The bidder's solution must provide the same functionality for both indoor water meters and those located in pit settings. Endpoints proposed for pit settings must be able to withstand the harsh pit environment and have no exposed electrical connections.		
3.3.6	List how frequently the endpoint bubbles up in drive-by and fixed network mode.		
3.3.7	The endpoint must be factory installable at the meter manufacturer. List all available options for the installation of the endpoint into new or existing meters.		

3.3.8	The endpoint in pit setting must offer an in-line connector that enables removal of the meter for periodic testing while allowing the endpoint to stay in the field. Connector must be a proven device with three or more years of use in the field.		
3.3.9	The endpoint must utilize an accurate and reliable encoding technology to capture readings. Describe the encoding technology utilized in the endpoint.		
3.3.10	The endpoint must be capable of detecting and reporting potential theft. Describe all tamper reports available with this water endpoint. At a minimum, the endpoint must report cut cable tampers, register communication errors, and reprogramming attempts.		
3.3.11	The system must be capable of detecting and reporting reverse flow events. Describe how the system detects and reports reverse flow.		
3.3.12	The endpoint must be capable of detecting and reporting metered leak events. Describe how the system detects and reports leaks		
3.3.13	The system shall allow the addition of meter modules at any time without the need for system reconfiguration. Describe the process for adding additional modules.		
3.3.14	The endpoint shall have the option of having a remote antenna for exceptionally unfriendly RF environments where standard mobile read mode is not sufficient for satisfactory reading performance.		
3.3.15	The endpoint should have an optional second port to connect an acoustic leak sensor, telemetry device or automatic shut off valve		
3.3.16	Bidder shall have sold a minimum of ten million radio-frequency based endpoints to the water utility market to assure familiarity with the water market.		
3.3.17	Endpoints capable of auto-configuring themselves when connected to encoded registers are preferable over endpoints that require programming after being connected to an encoded register. Explain available process for activation and programming of endpoints.		

3.3.18	Endpoints shall be capable of reading the water meter on top of the hour every hour and storing a minimum of 160 days of readings. The endpoint shall be capable of transmitting any or all of the readings via radio commands to avoid having to physically visit the endpoint site. Describe memory capacity of endpoints, data logging retrieval process, and how the endpoint's clock is kept on time, as well as the clock's accuracy.		
3.3.19	The endpoint should support remote shut-off. Please describe virtual and actual shut-off mechanisms.		
3.3.20	The remote shut off capability must be agnostic to market technology. No integral remote shut-off will be accepted.		
3.3.21	As part of City of North Miami's commitment to system integrity and conservation, City of North Miami requires the ability to meter right-size. One-minute resolution is preferred. What is the resolution of your meter right-sizing system? Please describe the functionality of your meter right-sizing system.		
3.3.22	Endpoint must have secure data communications. Please describe the security at the endpoint.		
3.4	Radio Frequencies	Product Capability	Notes
3.4.1	City of North Miami is seeking a solution with low power and high-throughput data handling characteristics.		
3.4.2	The endpoint can operate in the licensed or non-licensed ISM band according to the rules and regulations of the Federal Communications Commission (FCC) and Industry Canada (IC).		
3.4.3	Describe the bandwidth capacity of the system and expected data loads which will be carried.		
3.5	Meter Compatibility	Product Capability	Notes
3.5.1	Bidder must be compatible with multiple meter bidders to allow for complete freedom of meter choice. Depending on which utility segment, provide a listing of meter manufacturers and meter model numbers of which the endpoints are compatible. State whether the proposed system gives City of North Miami the flexibility to purchase meters from multiple bidders. Meter compatibility listings for endpoints must be provided.		

3.5.2	Based upon City of North Miami meter data provided (Appendix D), please provide the estimated number of meters that can be retrofitted with endpoints and the estimated number of new meters required to automate the meter population.		
3.6	Retrofit Hardware Requirements	Product Capability	Notes
3.6.1	Describe the equipment needed to perform retrofit installations of endpoints in the field.		
3.6.2	Describe how your firm retrofits meters less than 10 years old.		
3.7	Application Software for Route Processing	Product Capability	Notes
3.7.1	<u>Application Architecture</u>		
3.7.1.1	The application software must be a multi-tier client-server application based on the Microsoft's .NET development environment.		
3.7.1.2	The application software database management system must support Microsoft® SQL Server 2012 or Oracle® 11g.		
3.7.1.3	The application software server operating system must support Windows Server 2012.		
3.7.1.4	The application software client operating system must support Windows 10 to be compliant with Utility software.		
3.7.1.5	The application software must support the ability to horizontally scale to support potential utility growth without installing multiple instances of the software.		
3.7.1.6	The application software must support wired and wireless communications to handhelds and mobile collectors.		
3.7.2	<u>System Configuration</u>		
3.7.2.1	The application software must provide the ability to configure lists of codes and translations for the various meter reading and route processing functions. Provide a list of code tables that can be configured.		
3.7.2.2	The application software must provide the ability to configure various business process rules. Provide a list of meter reading and route processing rules that can be configured.		
3.7.2.3	The application software must provide the ability to integrate user defined scripts, batch files and programs that can then be accessed and executed by application users.		
3.7.2.4	The application software must provide the ability to configure the main display of the handheld device using drag and drop mechanisms.		

3.7.2.5	The application software must provide the ability to install and manage multiple versions of handheld software components.		
3.7.2.6	The application software must automatically update software on handheld devices based on software components assigned to specific handhelds or groups of handhelds by a system administrator.		
3.7.3	<u>Security</u>		
3.7.3.1	The application software must provide the ability to configure organizational hierarchy of the utility and assign routes, employees and collection devices to groups in the hierarchy		
3.7.3.2	The application software must provide the ability to control access to groups of the organizational hierarchy and the routes, employees and collection devices within those groups for each employee on the system.		
3.7.3.3	The application software must provide the ability to integrate users and authentication with LDAP compliant systems including Windows Active Directory.		
3.7.3.4	The application software must provide the ability to store and manage user names and passwords for application users and handheld users		
3.7.3.5	The application software must provide the ability to allow the system administrator to define the minimum length of user passwords.		
3.7.3.6	The application software must provide the ability to allow the system administrator to define the duration of time before passwords expire.		
3.7.3.7	The application software must provide the ability to allow the system administrator to define the maximum amount of failed log in attempts by a user before the user is locked out.		
3.7.3.8	The application software must provide the ability to view a history of successful logins and failed login attempts.		
3.7.3.9	Describe how your software controls user permissions and accessibility to application features and data.		
3.7.4	<u>Drive-by Computer Interface</u>		
3.7.4.1	The proposed system must provide for complete interface to the drive-by data collection device. Route unloading and loading must be provided either by manual operation or by automatic loading with pre-assigned reading activity.		
3.7.4.2	Transfer of route data shall be allowed through the use of external compact flash media including USB drives or via a direct transfer over wired or wireless network connection.		

3.7.4.3	The application server software must have the ability to automatically post uploaded route files from the mobile computer.		
3.7.4.4	The proposed system must be cloud based so data can be obtained from one device to another without requiring downtime for data upload/downloads.		
3.8	Handheld Computer and Related Hardware	Product Capability	Notes
3.8.1	<u>Collection Characteristics and Memory</u>		
3.8.1.1	Memory for application and data used in the data capture devices must be secure data technology, a non-volatile memory that improves data integrity and security.		
3.8.1.2	The handheld computer must have the capability to store all meter reading data collection information—including routes—on a removable, user accessible Secure Data (SD) Compact Flash (CF) card. This removable media should be able to be copied to an alternate handheld in the event of a handheld failure to retain and restore the meter reading data.		
3.8.1.3	The device must have persistent memory storage of system configuration and user setting to prevent having to reload them after a system reset or the main battery gets completely discharged.		
3.8.1.4	The device must be capable of wireless reading meters from off-premise. Please list and describe the reading options available with the handheld collection device.		
3.8.2	<u>Keyboard</u>		
3.8.2.1	<p>The device must have an easy-to-use data input system. The keyboard must provide the following:</p> <ul style="list-style-type: none"> • Environmental protection without the need for special covers or cases. • Alphanumeric data entry without need for a Shift key. • Dedicated New Service and/or Meter keys. • A dedicated Change Meter Information key. • A keyboard legend that facilitates the use of the application indicating software shortcuts or speed keys. • Large numeric and Enter keys to support use with gloved hands. • Keyboard and key legends that are backlit for use in low-light settings. • Keyboard keys must give the user a tactile feedback. 		
3.8.3	<u>Display and Physical Characteristics</u>		

3.8.3.1	The devices must use color liquid crystal display (LCD) technology with a minimum of 16 bits of resolution for applications that require a graphical user interface (GUI).		
3.8.3.2	The display must be backlit and be readable in outdoor applications.		
3.8.3.3	A touch-screen display shall be standard with every system. It needs to be pressure-sensitive and activated by the finger or a passive stylus.		
3.8.3.4	The display must support the use of a protective transparent film without negatively affecting its usability or readability.		
3.8.3.5	<p>All handheld devices must be equipped with:</p> <ul style="list-style-type: none"> • Hot swappable, field replaceable and rechargeable batteries • Battery capacity indicator with at least 4 levels • A battery charging system that completely charges the battery pack within 4 hours • The handheld computer must provide data security in the event of loss of power from the main battery supply. This protection is required even if the main battery supply is removed while the handheld computer is turned on for a minimum of 24 hours. • Battery must utilize smart lithium-ion technology with a minimum capacity of 2500 mAH. • The device must be chargeable outside of the communications cradle, including in a utility vehicle. Describe all charging options. 		
3.8.4	<u>Processing</u>		
3.8.4.1	The system shall support a minimum processor running at least 800 MHz		
3.8.4.2	The system must be able to run at a minimum Microsoft® Windows 7.		
3.8.5	<u>Communication</u>		
3.8.5.1.	The handheld must have the capability to perform its functions via radio with no wire connections required to the meter or meter module. Define the radio technology utilized by the programming handheld computer.		
3.8.5.2.	All radio components must be fully integrated into the handheld computer.		
3.8.5.3.	Should City of North Miami choose to purchase a non-radio version of the handheld; it must be feasible to upgrade these units in the future to support wirelessly reading meters.		
3.8.5.4.	The handheld must be IP-addressable and must communicate via Ethernet, USB, and serial port connections.		

3.8.5.5.	The system shall have, as an option, an internal GPS radio to capture latitude and longitude coordinates.		
3.9	Drive-by Mobile Collection System	Product Capability	Notes
3.9.1	Provide the specifications of drive-by system such as size, weight and so on.		
3.9.2	The drive-by system must be capable of operating inside of any utility vehicle in harsh environments. List the environmental specifications of the communications device.		
3.9.3	The drive-by system must be easily installed into new or existing utility vehicles. Indicate the installation procedure of the communications device.		
3.9.4	The drive-by system must provide the ability collect meter readings, tamper data and up to 160 days of daily and hourly interval data from water meters via handheld or drive-by radio.		
3.9.5	The drive-by system must provide the ability to perform remote disconnect and reconnect of water service via handheld or drive-by radio incorporated into meter reading routes. The commands must be secured using industry standard encryption and authentication protocols.		
3.9.6	The drive-by system must provide the ability to collect acoustic water leak sensor data via handheld or drive-by radio incorporated into meter reading routes.		
3.9.7	The drive-by system must provide diagnostics capability to allow troubleshooting in the field.		
3.9.8	The drive-by system must distinguish endpoints to be read based on priority via colored symbology on the mapping application.		
3.9.9	The drive-by system must provide a mapping application, including GPS, that allows the meter reader to visually determine which meters have been read and those that remain to be read via colored symbology.		
3.9.10	The drive-by system mapping application must provide the meter reader the flexibility to see only those meters that have not been read.		
3.9.11	The drive-by system mapping application must provide the meter reader the ability to view geographically where the vehicle is in relation to the end points being read.		
3.9.12	The drive-by system application must include functionality to calculate latitude and longitude GPS data for mapping purposes from address locations provided by the utility.		

3.9.13	The drive-by system must provide the ability to filter out interference that may be interpreted as meter reads. Please describe the method to accomplish this.		
3.9.14	The drive-by system must have 80 channels of read capability. If not, please identify how many channels of read capability your system provides.		
3.9.15	Explain in detail the migration strategy to go from handheld to drive-by and to fixed network.		
3.10	Fixed Network	Product Capability	Notes
3.10.1	City of North Miami requires the vendor to “host” the data management services of the solution. The hosted AMI network shall be monitored for performance with reporting on a regular basis to the City. Please describe your hosting capabilities, including cost savings to City of North Miami, location of the hosting operations, scalable for new coverage areas, failover procedures, preventative maintenance practices, disaster recovery and system backup, future system upgrades, data retention and archiving, and security features. Note any features that are “optional” or “extra,” including price difference.		
3.10.2	Any systems and services proposed must cover the meters in use at City of North Miami and must be compatible with standard communication protocols to cover other meters and/or service types. The proposed system must be designed to maintain an upgrade path for future technology and future applications while maintaining backwards compatibility to read installed meters. Describe the proposed intent with respect to providing this future upgrade path and any proposed remedy for failure to do so.		
3.10.3	City of North Miami understands that interference in RF is possible, even in a licensed band. How does your system handle interference? What is the expected downtime when interference occurs?		
3.10.4	City of North Miami requires that the collection system deployed be flexible enough to use fixed network data collection alongside mobile and handheld collection when desired describe the way your system offers multiple collection options.		
3.10.5	City of North Miami requires frequent data transmission. What is the rate of data transmission from the endpoint to the collector? From the collector to the utility office? What is the maximum amount of time before new data replaces old in the system?		

3.10.6	City of North Miami requires a solution that is field tested and proven. How long has your company been providing AML systems?		
3.10.7	City of North Miami requires collection redundancy to accommodate extreme weather and other disruptions as well as to accommodate occasional contingency reads. How does your solution demonstrate redundancy? What happens when extreme weather, vandalism, or other unpredictable interruptions knock out a collector? How long does it take for a collector to come back online? At what cost?		
3.10.8	City of North Miami requires solar power capabilities for the data collectors.		
3.10.9	City of North Miami understands that factors such as terrain, urban density and the installation environment can affect coverage. City of North Miami requires that the fixed network data collectors be flexible in their mounting and location requirements.		
3.10.10	City of North Miami desires that fixed network data collectors be unobtrusive. Please describe the mounting and location requirements for your fixed network data collectors.		
3.10.11	City of North Miami requires accurately time-synchronized data. Please describe the time synchronization process of your system. How can you guarantee that time synchronization will remain accurate over the life of the system?		
3.10.12	City of North Miami requires two-way data collection. Please describe the process of requesting an on-demand read through your fixed network system. How recent will the data be?		
3.10.13	City of North Miami requires a fixed network data collection system that provides a secure communication between the head end and the endpoint. City of North Miami requires security that is consistent across the entire system. How does the fixed network data collection system secure communications between the endpoint and the head-end system?		
3.10.14	City of North Miami requires an RF Propagation Analysis of the entire Utility service area with built in redundancy overlays (color coded) to include number of towers per service accounts.		
3.10.15	City of North Miami requires <u>three</u> tower redundancy coverage over 50% of the Utility Service area.		

3.10.16	City of North Miami has provided a list of the City's existing water meters and proposed City asset sites (Appendix D) to assist in the propagation analysis. All other inquiries must be made in the form of an RFI.		
3.10.17	City of North Miami will not accept any proposals that utilize a multiple endpoint hopping system "Mesh Network".		
3.10.18	The proposed AMI system should be expandable for other uses such as: other metered municipal flows, traffic monitoring, street light management, vehicle routing management, wastewater flow monitoring and water usage comparison for inflow/infiltration reduction, Sanitary Sewer Overflow (SSO) Monitoring, improved mobility, lift station telemetry, and irrigation monitoring for water loss tracking purposes. Discuss system capabilities for implementing such uses.		
3.11	Analytics Software	Product Capability	Notes
3.11.1.	<p>The City of North Miami requires that their Enterprise Resource Planning (ERP) system be compatible with the proposed AMI system software. The proposed system shall include seamless integration of automatic meter reading data with the City's billing software including data sharing protocol and any software customization necessary to ensure existing water billing software produces complete and accurate invoices to customers without interruption. Please list all ERP systems that are compatible with your system software. Please describe your system integration procedures and the way that a utility employee will see the AMI data. How will employees accomplish daily activities such as:</p> <ul style="list-style-type: none"> • Reconciling bill complaints • Recognizing possible leaks • Creating new bills for move-out • Identifying usage in unoccupied locations 		
3.11.2.	City of North Miami billing department employees and customer service representative need accurate, up-to-date data about individual customers/single endpoints or a group of endpoints. City of North Miami manager need accurate, complete information about routes, groups of customers, and the system as a whole. Please describe, including screen shots, how each of these sets of employees will find and use the information they require.		

3.11.3.	City of North Miami requires proof of system performance. Please describe how your software solutions tracks system performance and reports it to the City of North Miami.		
3.11.4.	City of North Miami anticipates population growth with the life of this AMI system. What tools do you provide to help the City of North Miami expand the network based on future growth? Please note any features that allow this ability that are “optional” or “extra” including price difference.		
3.11.5.	As part of our commitment to system integrity and accuracy, City of North Miami requires the ability to identify tampers such as usage on an inactive meter or no usage on an active meter. Please describe your system’s capabilities in this area.		
3.11.6.	As part of our commitment to system integrity and conservation, City of North Miami requires the ability to conduct district metering analysis. Please describe the way your system offers district metering analysis.		
3.11.7.	City of North Miami requires that Interval data be accessible in multiple views. Please describe the way in which your system offers all of the following views: Hourly, Daily, Weekly, as well as current billing period, any of the above compared to a previous period, filtered by week, weekend, holidays, etc.		
3.11.8.	City of North Miami requires the ability to schedule reports to be run and e-mailed to customers.		
3.11.9.	City of North Miami requires that the software have the ability to check for reading anomalies (high/low) and report them.		
3.11.10.	City of North Miami requires leak detection capabilities. Please describe the way your system reports leaks.		
3.12	Consumer Engagement	Product Capability	Notes

3.12.1.	<p>City of North Miami is looking for a Software-as-a-service provider to build a program that engages customer with one or more of the following goals:</p> <ul style="list-style-type: none"> • Improving customer satisfaction • Converting customers from print communications to digital communications • Making better use of AMI Data, in particular in alerts • Aiding in the transition from monthly to hourly (AMI) data • Improving water-use efficiency • Increasing program participation • Reaching low income customers to assist with affordability • Implementing a comprehensive payment processing service • Increasing electronic billing adoption 		
3.12.2.	<p>City of North Miami requires that the vendor's consumer engagement interface provides near real-time data so that customers can view their own endpoints by logging onto a secure website and have access only to their own data. How often is data sent to your consumer engagement device?</p>		
3.12.3.	<p>City of North Miami require that the consumer engagement data be readable by end-customers on a variety of platforms. Is your consumer engagement interface available on a PC? A smartphone? Please describe all available options. Any "optional" or "extra" features must be noted as such, and the price difference listed here.</p>		
3.12.4.	<p>City of North Miami requires interactive budgeting capabilities for end-use customers. Please describe or illustrate your end-customer budget interface and describe its capabilities. Any "optional" or "extra" features must be noted as such, and the price difference listed here.</p>		
3.12.5.	<p>City of North Miami requires customers' ability to enter information about home size, square footage, number of persons in home and other useful information in comparing water usage of similar properties.</p>		

3.12.6.	City of North Miami requires the ability to automatically detect leak events using AMI or Non-AMI data, automatically notify the customer of suspected leaks, engage the customer to investigate and resolve the leak with step-by-step instructions and resources, and provide resolution details to Utility through the Dashboard.		
3.12.7.	City of North Miami requires the ability to view dynamic, personalized information on why a bill might be high and what can be done to reduce future consumption.		
3.12.8.	City of North Miami requires the ability to disaggregated water consumption estimates for indoor and outdoor usage.		
3.12.9.	City of North Miami requires the ability to display water consumption data in context of temperature and precipitation data to inform users of how weather impacts water use.		
3.12.10.	City of North Miami requires the ability to estimate and display irrigation events in the consumption graph view.		
3.12.11.	City of North Miami requires an Interactive money-saving recommendation library, customized for each account profile and configurable by the Utility with step-by-step implementation instructions, informational links and videos, dynamic estimates of savings potential in GPD and dollars per year, and ability to sign up for, and keep track of, money saving activities. Library should highlight and rotate most relevant savings actions for customers based on the customer's profile and the season		
3.13	Water Loss Management System	Product Capability	Notes
3.13.1	City of North Miami requires a permanent monitoring integrated distribution level leak detection system. Please describe how your system is integrated into the proposed system.		

3.13.2	City of North Miami requires leak detection system software that prioritizes leaks by severity. Please describe the reports provided by your leak detection software. How often are they generated?		
3.13.3	Please describe the functionality of your leak detection system on City of North Miami existing steel distribution pipes. Please describe the functionality of your leak detection system on City of North Miami existing PVC service lines.		
3.13.4	City of North Miami requires that the leak detection system be hosted and accessible in the field. Please describe how your system meets these requirements.		
3.13.5	City of North Miami requires a leak management system that can record history of previous leaks/repairs at sensor locations. Please describe how your system generates such data and reports.		
3.13.6	City of North Miami requires the leak detection sensors to have a minimum of 10 year battery life and must be completely submersible without impacting sensor integrity or performance.		
3.13.7	City of North Miami requires a web-based user interface (UI) that displays a digital map of the service territory with each sensor location properly identified with GPS coordinates. UI must also display leak status for each sensor with an appropriate legend, such as: red for probably leak, yellow for possible leak and green for no leak likely.		
3.13.8	City of North Miami requires that the leak sensor be readable with a two-way radio controller. Digital leak sensors must: employ a two-way, multi-band radio protocol transmitting and receiving on licensed and non-licensed frequencies; use advanced frequency-hopping spread spectrum techniques to avoid interference; use advanced direct sequence techniques to increase range; and be approved by the FCC for non-licensed operation under FCC rules part 15.247 in the U.S. or equivalent applicable rules in other territories.		
3.13.9	City of North Miami requires that the leak sensors have a self-calibrating, real-time calendar clock for implementation of nighttime recording and power management.		
3.13.10	City of North Miami requires that the leak sensors record vibrations during the night a minimum of 256 times over a 4-hour period in order to characterize nighttime vibrations in the environment of the sensor.		

3.13.11	City of North Miami requires that the analysis software include computation of a leak status for every acoustic leak detection sensor. The leak status is derived from a leak index, which is a number between 0 and 99 that represents the relative likelihood of there being a leak in the vicinity of the acoustic leak detection sensor.		
3.13.12	City of North Miami requires that bidders must offer 24 hour per day customer support, 7 days a week. Specify details of the vendor's support package.		
3.14	Displacement Residential Water Meters	Product Capability	Notes
3.14.1	All meters offered must comply with the latest NSF 372 standards. These specifications cover cold water meters and the materials and workmanship employed in their fabrication. The displacement meters covered are known as nutating disc meters and are positive in action in that the discs displaces or carries over a fixed quantity of water for each nutation of the disc when operated under positive pressure. Only nutating disc meters offering bronze bodies conforming to NSF 372 standards are acceptable. Displacement meters with coatings applied on their housing bodies to meet NSF 372 standards are not acceptable.		
3.14.2	An affidavit from the manufacturer that the meters furnished under the purchaser's order comply with all applicable requirements of AWWA specifications and these detailed specifications.		
3.14.3	All meters shall have a bronze outer case with a separate removable bottom plate made of bronze or polymer material for meter sizes 5/8" x 3/4" and bronze for 1" meters. A bronze removable top plate shall be supplied for larger size meters. The size, model, and direction of flow shall be molded in the upper casing of the meter housing. Meters shall meet AWWA standards as it applies to working pressure and shall be in conformance to NSF 372 standards.		
3.14.4	The outer case shall be so designed to accept either a totally sealed straight reading or digital absolute encoder register as described in these specifications.		
3.14.5	1 1/2" and 2" meters shall be equipped with female threads or oval flanges. Oval flanged meters shall have casted in place a 1" NPT threaded test plug, for inline field testing, or pressure checks and shall accept the register configurations stated above.		

3.14.6	All external closures shall be designed for easy removal after long service. Special torx tamper style seal screws shall be available and provided. Plastic push through pins are not acceptable. Bolts to secure the top and bottom plates to the meter body shall be made of non-corrosive stainless steel.		
3.14.7	All meters shall have an absolute encoder register that is permanently sealed using a glass reading dome and brass or stainless steel housing, reading in US gallons. The encoder register shall incorporate a sweep hand and leak indicator on the dial face. The encoder register shall have a plastic lid with the meter serial number stamped on it. The encoder register shall be designed with a resolution encoder which includes eight digit resolution to AMR/AMI Endpoints and the option of four, five, six, seven or eight-dial resolution. The Encoder register shall be mechanical, LCD or LED will not be accepted.		
3.14.8	The measuring chambers shall be self-contained units smoothly finished, firmly seated, easily removed from the main cases, and shall not be a part of the main case. The measuring chamber, 5/8" through 2", shall be made of a dimensionally stable reinforced thermoplastic. They shall be of two-piece snap joint design and shall be secured in the main casing so that the accuracy of the meter will not be affected by any distortion of the cases that may occur when operating under pressures to 150 psi.		
3.14.9	The measuring device shall be made of a suitable synthetic polymer as near the specific gravity of water as possible. It shall be smoothly finished and shall be fitted accurately into the measuring chamber. The disc style shall be equipped with a thrust roller and disc spindle. The disc nutations shall not exceed those listed below.		
3.14.10	All meters shall be provided with strainer screens of rigid non-ferrous material which fit snugly, are easy to remove, and have an effective straining area at least double that of the main-case inlet.		
3.14.11	All meters offered shall meet or exceed the latest AWWA accuracy standards for new water meters.		
3.14.12	Meters supplied under these specifications shall operate without leakage or damage to any part at a working pressure of 150 psi.		
3.14.13	All bids shall include the manufacturers nationally published warranty.		
3.14.14	City of North Miami requires credit for meters that are being changed out and disposed of. The vendor shall provide free crates for the storage of		

	the scrap meters, make arrangements for the pick-up of the scrap meters and the issue a check to City of North Miami within 2 weeks of the coordinated pick-up date. Pricing shall be included per meter on the bid schedule in accordance with the size of the meter.		
3.15	Solid State Residential Water Meters	Product Capability	Notes
3.15.1	This specification covers Cold Water Ultrasonic Meter in sizes 5/8", 5/8" x 3/4", 1", and the material and workmanship employed in their fabrication. The meter must utilize ultrasonic measurement technology and have no moving parts within the meter.		
3.15.2	The basis for measurement is the use of ultrasonic signals sent consecutively in forward and reverse directions of flow. Velocity is determined by measuring the time difference between the measurement in the forward and reverse direction. Flow totalization can then be calculated from the measure flow velocity using water temperature and pipe diameter. The meter is all electronic with totally potted circuitry, display and battery. There are no moving parts to wear or replace and no part of the meter is removable or serviceable.		
3.15.3	The purchaser may require, in their supplemental specifications, an affidavit from the manufacturer or vendor that the meters furnished under the purchaser's order comply with all applicable requirements of this specification. Failure to meet any part of the specification shall be sufficient cause for rejection.		
3.15.4	Meters supplied under this specification shall operate without leakage or damage at a working pressure of 175 psi.		
3.15.5	The housing shall be lead-free, made of bronze, stainless steel, and shall be designed so that at a working pressure of 175 psi, any distortion will not affect the accuracy of the meter. Metering tube shall not be repaired in any manner. The flow direction and meter size shall also be cast in the meter tube and the inlet and outlet shall have a common axis.		
3.15.6	The ultrasonic metering insert shall be self-contained within the meter flow tube, seated, and not removable. The insert shall be secured to the main case, providing a method of minimizing turbulence and cleaning the reflectors, so that the accuracy of the meter will not be affected by any distortions of the case when operating at a pressure of 175 psi. The metering insert shall be		

	made of engineered polymer and stainless steel and the ultrasonic transducers shall be wetted components that extend through the meter tube and shall have a surface of stainless steel.		
3.15.7	The electronic circuit shall be micro-processor based and include a non-replaceable battery, and non-volatile memory capable of storing all programmable data and accumulated data. The circuit shall control the ultrasonic transducers. No field programming or calibration shall be necessary. The entire meter circuit and related components shall be fully potted and sealed from water intrusion. No components shall require service or replacement over the life of the meter. For reliability, the use of inductive coil technology shall not be permitted with an electronic residential meter.		
3.15.8	The name of the manufacturer shall be permanently molded and the serial number shall be imprinted on the lid of the register box. The lid and shroud components shall overlap to protect the lens. Register box enclosures and lids shall be made of engineered polymer.		
3.15.9	The Register shall be encased in an integral non-corrosive polymer housing, with the electronics, display, and battery completely potted within. It must be permanently epoxy sealed with a cured in place hard epoxy to provide moisture resistance to flooded pit or submerged conditions. The permanent seal between the lens and non-corrosive plastic housing shall utilize an adhesive seal.		
3.15.10	The Register shall be an integral part of the meter assembly. The register must be available as factory pre-wired to an endpoint, or factory pre-wired to an inline connector that can be used to connect to an endpoint.		
3.15.11	The Register shall consist of an electronic local display combined with electronic circuitry to provide either a high resolution absolute encoder output. This electronic register assembly shall transmit a signal through properly shielded (grounded) transmission wire for electronic reading connectivity.		
3.15.12	The High Resolution Absolute Encoder Register option, available for the engineered polymer and stainless steel meters, shall use an industry ASCII protocol. Capable of sending a 9-digit encoder output to the endpoint as well as extended status messages. Resolution being sent to the reading software is based on the output of the endpoint.		

3.15.13	The display shall be a straight reading, permanently sealed electronic LCD with digits 0.25 inches high. The display will contain 9 digits plus a decimal point and display consumption, units of measure, rate of flow and alarm information. The digital display shall provide a totalized consumption resolution to 0.01 gallons.		
3.15.14	The size, model, and direction of flow through the meters shall be permanently visible on the topside of all meter displays. The units of registration, U.S. gallons, cubic feet, or meters cubed shall also be designated on the Register display. The enhanced resolution of the totalized flow display can be utilized as a flow indicator for leak detection.		
3.15.15	The Register shall have a lid that covers the display face for added protection and optional identification of serial number.		
3.15.16	The meter shall register not less than 98.5% and not more than 101.5% of the water actually passed through the meter. At the extended low test flow rate, the meter shall register not less than 97.0% and not more than 103.0% of the water actually passed through the meter.		
3.16	Water Service Connections and Meter Box Replacement	Product Capability	Notes
3.16.1	The project includes repairing or replacing associated water service piping and water meter boxes with lids as needed to provide complete and acceptable water service connections. Include all costs associated with maintenance of vehicular and pedestrian traffic and all other appurtenances necessary for a complete water service repair and meter box replacement. For bidding purposes, assume a 5-foot repair with HDPE piping. Bid water service connections, meter box and lid replacements, and meter box lid replacements only per the quantities shown on the Price Proposal Form. Describe your experience, methodology, and the equipment needed to perform water service connection repairs and meter box replacement in the field.		
3.16.2	Confirm acceptance.		
3.16.3	Confirm acceptance.		
3.16.4	Confirm acceptance.		
3.16.5	Confirm acceptance.		



Appendix B
AMI PROGRAM – COMPLIANCE TABLE – SCOPE OF WORK

ADVANCED METERING INFRASTRUCTURE PROGRAM

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4.2	Experienced Project Management	Capability	Notes
4.2.1	The bidder, and its representatives, shall have a proven program of professional project management to ensure detailed follow-through for successful execution of system installations. Project managers shall be experienced in managing the design, installation and optimization of systems. Project management experience shall include system integration capabilities and any necessary training support.		
4.2.2	Selected vendor's authorized distributor is to provide local technical support and project management for 1 year after initial system implementation.		
4.2.3	Project Management will be responsible for working with Utilities and Customer Service to develop Standard Operating Procedures (SOP's) for post implementation maintenance.		
4.2.4	Due to environmental conditions that are unique to Southeast Florida, the Project Management must provide a minimum of 3 references in Southeast Florida including Dade, Broward, and Palm Beach Counties.		
4.2.5	Describe your experience in managing systems such as those being proposed.		
4.3	System Configuration	Capability	Notes
4.3.1	The bidder selected shall provide a preliminary study team that works with City of North Miami to determine exact requirements and recommends a configuration solution. This team will deal with the entire project, including an agreed-upon pilot study and phased approach to implementation, as required. Please describe your experience and capabilities to provide this study team.		
4.4	Pilot Study	Capability	

4.4.1.	As discussed in this RFP, the City plans to install the proposed AMI system as a multi-phase program, but is interested in the successful Respondent providing and performing an initial pilot study to assist in evaluating the proposed AMI system. Confirm acceptance.		
4.4.2.	For the pilot study, provide as part of your pricing proposal, all costs to provide and perform the pilot study including, but not limited to, costs for hardware configuration setup, operating system and software installation, parameter setups, definition of required reports, and development of input and output files. The pricing proposal is setup for Respondent's to provide pricing for subsequent phases as well. Confirm acceptance.		
4.4.3.	The pilot installation will cover 1,200 residential meters and all mounting hardware, meter boxes, meter box lids, and water service piping as specified in this document. The intent is for the successful Respondent to provide, install, operate, and monitor the pilot system over the course of 6 months. As part of the monitoring process, the successful Respondent will be required to provide monthly system health reports by the manufacturer or manufacturing representative for the meters, endpoints and collection equipment including, but not limited to, network components, software, and hardware. Confirm acceptance.		
4.4.4.	As part of the pilot study, the Respondent will be required to confirm compatibility with the City's billing software as discussed in this RFP, billing system interface requirements, application requirements, platforms supported, and network management responsibilities. The Respondent will be fully responsible for proposing any pricing or services for billing software integration and meter data electronic transfer required for the pilot and the subsequent project phase. Confirm acceptance.		
4.4.5.	The 1,200 meters included as part of the pilot study will be located in the Golf Park area. Pilot study limits are within NW 119 th Street for the northern boundary, NW 14 th Avenue for the eastern boundary, NW 107 th Street for the southern boundary, and NW 27 th Avenue for the western boundary. The Respondent is responsible to review this pilot study area as needed to understand existing conditions, project installation requirements, and pilot system network setup. Confirm acceptance.		

4.4.6.	The intent of the pilot study is to simulate and confirm that the proposed AMI system complies with all aspects of the RFP, the system is consistent with the Respondent's compliance table responses, and that system performance is acceptable to the City. No third-party solutions will be accepted for this pilot. All collection system devices and software will be provided by the manufacturer. Confirm acceptance.		
4.4.7.	If the pilot study results do not confirm compliance with the RFP requirements and associated compliance table responses, the City reserves the right to terminate the contract, and at the City Manager's or designee's discretion, begin negotiations with the next lowest responsible and responsive Respondent. Assuming the successful Respondent was initially selected based on acceptable compliance table responses provided by that Respondent, all costs of the pilot study will be the responsibility of the Respondent. No Respondent shall have any rights against the City arising from such termination thereof. Confirm acceptance.		
4.4.8.	Describe your standard process in which the project team implements, operates, and monitors AMI pilot systems as described in this RFP.		
4.5	System Design	Capability	Notes
4.5.1.	For the first phase and subsequent phases, describe your standard process in which the project team decides what system configuration, installation options, performance criteria and redundancy will work best. This includes billing system interface requirements, application requirements, platforms supported, and network management responsibilities.		
4.6	Configuration and Set Up	Capability	Notes
4.6.1.	For the first phase and subsequent phases, provide as part of your pricing proposal, the expected cost for hardware software, configuration setup, operating system and software installation, parameter setups, definition of required reports, and development of input and output files. If your software must be customized please provide those costs in the system pricing. The Respondent must also include and will be fully responsible for all costs or services for billing software integration, meter data electronic transfer, and all annual fees for billing interface as required for the pilot and the subsequent project phase.		

4.7	Installation	Capability	Notes
4.7.1.	For the first phase and subsequent phases, provide as part of your pricing proposal all aspects of the installation and construction of systems used to provide the proposed meter reading services. Please detail assumptions on the bidder's responsibilities and City of North Miami's responsibilities during the installation and construction phase. These assumptions must include responsibilities for meter retrofit, new meter, and associated field installation.		
4.7.2.	<u>Electronic Data Collection</u>		
4.7.2.1	Contractor shall utilize a Field Computer or electronic device for the specific purpose of collecting new meter information. The field computer shall be equipped with a barcode code scanner, camera and integrated GPS, at a minimum, to ensure data collection accuracy and integrity. It is acceptable to utilize a hardcopy form in the field for the purpose of production planning and supervision, but at no time should the hardcopy be used to solely collect the new meter information to be later hand keyed into a database for data processing, this is specifically to prevent human error in the field and in the office.		
4.7.2.2	It is required that a job Forman, or crew leader, perform the data collection at each location, to include a final quality control review of the installation upon completion. A picture shall be taken of old meter read and new meter set.		
4.7.2.3	Contractor shall have the means to automate and perform a thorough quality control review on a daily basis. The specifics are noted below, at a minimum, and must be able to demonstrate their process in detail if required. <ul style="list-style-type: none"> • Endpoint – Verify there are no duplicates in the system. • Endpoint – Utilize Certification File from manufacture and / or supplier to ensure data accuracy. • New Meter – Verify there are no duplicates in the system. • New Meter – Utilize Certification File from manufacture and / or supplier to ensure data accuracy. • Final Read – Compare final read to a threshold, including an upper and lower limit, to prevent erroneous reads from inadvertently entering billing. 		

	<ul style="list-style-type: none"> Meter Attributes – Utilize Certification File from manufacture and / or supplier to ensure data accuracy. 		
4.7.3.	<u>Reporting</u>		
4.7.3.1.	Contractor shall prepare nightly reports to reflect the day's production.		
4.7.3.2.	Contractor shall prepare weekly project progress reports to communicate inventory levels as well as project progress.		
4.7.3.3.	Contractor shall prepare weekly and / or monthly system integrity reports to include route/book saturation levels as well as read rates.		
4.7.4.	<u>Experience</u>		
4.7.4.1.	Contractor shall have a minimum of five (5) years' experience performing meter installations with AMR and AMI type systems.		
4.7.4.2.	Contractor shall have a verifiable experience record of having installed 15,000 meters per year, during the previous ten (10) years, of this RFP.		
4.7.4.3.	Respondent must be a Certified General Contractor and/or Certified Underground Utility and Excavation Contractor. All license information must be active and appear on the State of Florida Department of Business and Professional Regulation website for verification.		
4.8	Water Service Connections and Meter Box Replacement	Capability	Notes
4.8.1.	For the pilot study and subsequent phases, The project includes repairing or replacing associated water service piping, meter boxes with lids, and meter box lid replacement only as needed to provide complete and acceptable water service connections. Describe your experience, methodology, and the equipment needed to perform water service connection repairs and meter box replacement in the field.		
4.9	Training	Capability	Notes
4.9.1.	City of North Miami requires training on all facets of the AMI System. Please describe how your services conducts this training.		
4.9.2.	City of North Miami requires training on the Hand held meter reading system.		
4.9.3.	City of North Miami requires training on the Mobile meter reading system.		
4.9.4.	City of North Miami requires training on Hand held and Mobile meter reading Software.		
4.9.5.	City of North Miami requires training on the Fixed Network Administrative Software.		
4.9.6.	City of North Miami requires training on the Network Monitoring.		

4.9.7.	City of North Miami requires training on the Reporting and Analysis Processes		
4.9.8.	City of North Miami requires training on the Endpoint Installation and Maintenance		
4.9.9.	City of North Miami requires training on Field Maintenance Procedures for Meter boxes, endpoints and Network hardware		
4.10	Documentation	Capability	Notes
4.10.1.	Please describe documentation provided with the system that will cover all phases of the system operation on all components and software in the system.		
4.11	System Support	Capability	Notes
4.11.1.	The bidder must provide the option for contracting system support for 24 hours per day, 7 days per week. Support staff shall be trained in system operations and troubleshooting. Support shall be provided via telephone, remote PC connections and email. Online self-support is beneficial.		
4.12	System Pricing	Capability	Notes
4.12.1.	Please describe in detail the pricing for the services proposed and detail any assumptions made in the proposed solution and pricing. Please provide any costs associated with software customizations needed to meet the technical requirements. The Respondent must also include and will be fully responsible for all costs or services for billing software integration, meter data electronic transfer, and all annual fees for billing interface as required for the pilot and the subsequent project phase.		
4.13	Warranty and Customer Support	Capability	Notes
4.13.1.	Specify the warranty period on all applicable products.		
4.13.2.	State how long the bidder has supported existing AMI product lines.		
4.13.3.	Bidder must offer 24 hour per day customer support, 7 days a week. Specify details of the bidder's support package.		
4.13.4.	The proposed business transaction shall be a purchase of the system by City of North Miami.		
4.13.5.	City of North Miami shall own all data collected by the system. Data collected by the system shall not be used for any purpose without the approval of City of North Miami.		
4.14	Company Stability and Market Standing	Capability	Notes
4.14.1.	Company must have been in the business of providing AMR/AMI solutions for at least five (5) years and have at least 1,000 utility AMR/AMI customers.		

4.14.2.	Provide detailed company financial and market standing information.		
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Appendix C
PRICE PROPOSAL FORM

ADVANCED METERING INFRASTRUCTURE PROGRAM

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This total Price Proposal Form (Appendix C) shall be submitted in a separate sealed envelope.

The Price Proposal Form shall consist of a lump sum, fixed fee (Contract Price) based on the pilot study and first installation phase breakdown provided. The Contract Price shall be based upon and include any and all costs or expenses to be incurred by the Respondent in implementing, fulfilling and completing all aspects of the pilot study and first installation phase of the AMI program as defined in this RFP and as necessary to ensure proper delivery of services and products requested by the City of North Miami.

Upon award of the Contract to the selected firm, the proposer will provide a Schedule of Values as part of the pre-construction meeting for review by the City. The intent of the Schedule of Values is to provide the City with a more detailed breakdown of the equipment and services included in the lump sum Contract Price for the pilot study and first installation phases. The total of the Schedule of Values will be the lump sum Contract Price for completing the Scope of Work in this Solicitation. As discussed in Section 4, if the pilot study results do not confirm compliance with the RFP requirements and associated compliance table responses, the City reserves the right to terminate the contract, and at the City Manager's or designee's discretion, begin negotiations with the next lowest responsible and responsive Respondent. Assuming the pilot study was initially accepted based on acceptable compliance table responses provided by the Respondent, all costs of the pilot study will be the responsibility of the of the Respondent. No respondent shall have any rights against the City arising from such termination thereof.

Include a detailed total system project schedule based upon the required propagation study, the 6 month pilot study, the 1-year installation schedule with a 1 year service contract. Alternates for displacement versus solid state meters will be evaluated and may or may not be awarded at the sole discretion of City. Alternates may be awarded separately or in combination as deemed to be in the best interest of City.

The following Price Proposal Form is presented to assist the City in evaluating the Proposal. After award, the City reserves the right to modify estimated quantities subject to the unit price, and eliminate line items if necessary. In the event of discrepancy or approved quantity change, the Unit Price for each item will govern. Payment shall be made for the items listed on the price Proposal Form on the basis of the Work actually performed and completed.

Item #1 – Pilot Study Basic Services:

Item	Description	Qty.	Unit	Unit Cost	Total Cost
1.	Mobilization, Bonds & Insurance	1	LS	_____	_____
2.	AMI System Components	1	LS	_____	_____
3.	AMI System Software	1	LS	_____	_____
4.	AMI Project Management	1	LS	_____	_____
5.	¾" Service Connections	220	EA	_____	_____
6.	1" Service Connections	20	EA	_____	_____
7.	Construction Project Management	1	LS	_____	_____
8.	Meter Box and Lid Replacement	600	EA	_____	_____
9.	Meter Box Lid Replacement Only	240	EA	_____	_____

Item #1 – Sub Total Amount \$ _____

Item #2 – Displacement Residential Water Meters (Pilot Study Alternative 1):

Item	Description	Qty.	Unit	Unit Cost	Total Cost
1.	Furnish and Install (F&I) 5/8"x3/4" Displacement meters	1,100	EA	_____	_____
2.	F&I 1" Displacement meters	100	EA	_____	_____

Item #2 – Sub Total Amount \$ _____

Item #3 – Solid State Residential Water Meters (Pilot Study Alternative 2):

Item	Description	Qty.	Unit	Unit Cost	Total Cost
1.	F&I 5/8"x3/4" Solid State	1,100	EA	_____	_____
2.	F&I 1" Solid State	100	EA	_____	_____

Item #3 – Sub Total Amount \$ _____

TOTAL LUMP SUM AMOUNT FOR PILOT STUDY BASIC SERVICES WITH ALTERNATE 1 (ITEM #1 + ITEM #2) \$ _____

TOTAL LUMP SUM AMOUNT FOR PILOT STUDY BASIC SERVICES WITH ALTERNATE 2 (ITEM #1 + ITEM #3) \$ _____

Item #4 – First Installation Phase Basic Services:

Item	Description	Qty.	Unit	Unit Cost	Total Cost
1.	Mobilization, Bonds & Insurance	1	LS	_____	_____
2.	AMI System Components	1	LS	_____	_____
3.	AMI System Software & Hosting	1	LS	_____	_____
4.	AMI Project Management	1	LS	_____	_____
5.	AMI Training	1	LS	_____	_____
6.	AMI Annual Service Contract	1	LS	_____	_____
7.	AMI Equipment Annual Maintenance Fees	1	LS	_____	_____
8.	Water Loss Management System	1	LS	_____	_____
9.	¾" Service Connections	630	EA	_____	_____
10.	1" Service Connections	80	EA	_____	_____
11.	1- ½" Service Connections	50	EA	_____	_____
12.	Meter Box and Lid Replacement	1,900	EA	_____	_____
13.	Meter Box Lid Replacement Only	760	EA	_____	_____

Item #4 – Sub Total Amount \$ _____

Item #5 – Displacement Residential Water Meters (First Installation Phase Alternative 1):

Item	Description	Qty.	Unit	Unit Cost	Total Cost
1.	Furnish and Install (F&I) 5/8"x3/4" Displacement meters	3,300	EA	_____	_____
2.	F&I 1" Displacement meters	320	EA	_____	_____
3.	F&I 1 1/2" Displacement meters	80	EA	_____	_____
4.	F&I 2" Displacement meters	100	EA	_____	_____

Item #5 – Sub Total Amount \$ _____

Item #6 – Solid State Residential Water Meters (First Installation Phase Alternative 2):

Item	Description	Qty.	Unit	Unit Cost	Total Cost
1.	F&I 5/8"x3/4" Solid State	3,300	EA	_____	_____
2.	F&I 1" Solid State	320	EA	_____	_____
3.	F&I 1 1/2" Solid State	80	EA	_____	_____
4.	F&I 2" Solid State	100	EA	_____	_____

Item #6 – Sub Total Amount**\$ _____****TOTAL LUMP SUM AMOUNT FOR FIRST INSTALLATION
PHASE BASIC SERVICES WITH ALTERNATE 1
(ITEM #4 + ITEM #5)****\$ _____****TOTAL LUMP SUM AMOUNT FOR FIRST INSTALLATION
PHASE BASIC SERVICES WITH ALTERNATE 2
(ITEM #4 + ITEM #6)****\$ _____**

Pricing will not be opened until the complete system evaluation and grading has been done.

Company Name_____
Offeror Signature_____
Date:_____
Name: (Please Print)_____
Title:



Appendix D
EXISTING WATER METER INVENTORY AND CITY ASSET SITES

ADVANCED METERING INFRASTRUCTURE PROGRAM

RFP 12-18-19

A list of the City's existing water meter inventory is available online as an electronic file. The water meter inventory is provided for the Proposer's convenience only and to assist the Proposer in developing an AMI project approach and propagation study.

The following key is to determine meter sizes as shown on the inventory list:

7 = $\frac{3}{4}$ "
10 = 1"
20 = 2"
30 = 3"
40 = 4"
60 = 6"
80 = 8"

The following is a list of City assets with general height information offered as potential locations for the fixed base network. It is the responsibility of the Respondent to determine if alternate or additional locations are required:

- City Hall - 776 NE 125 Street, 4 story building
- Motor Pool - 1855 NE 142 Street, 2 story building
- Winson Water Treatment Plant - 12098 NW 11 Avenue, 2 story building
- Joe Celestin Center - 1525 NW 135 Street, 2 story building



Appendix E
PROPOSAL SUBMITTAL CHECKLIST

ADVANCED METERING INFRASTRUCTURE PROGRAM

RFP 12-18-19

This checklist is provided for Proposer's convenience only and identifies the sections of this submittal document to be completed and submitted with each response. Any Proposal received without any one or more of these sections may be rejected as being non-responsive. Please be advised that this checklist may not necessarily complete include all of the requirements listed throughout this Solicitation. It sets guidelines for consideration, and may be added to as the need arises.

Company Name: _____

Section One (1) Appendix Forms		OFFICE USE ONLY
Tab/Page No.		
	Appendix A: Cover Page/Contact Person Information Sheet	
	Appendix B: AMI Program - Compliance Table	
	Appendix C: Price Proposal Form	
	Appendix D: Existing Water Meter Inventory & City Asset Sites (Electronic)	
	Appendix E: Proposal Submittal Checklist	
Section Two (2) Narrative Description		OFFICE USE ONLY
Tab/Page No.		
	Company Narrative	
Section Three (3) City Contract Forms		OFFICE USE ONLY
Tab/Page No.		
	A-1 Public Entity Crimes Affidavit	
	A-2 Non-Collusive Proposal Certificate	
	A-3 Local Preference Affidavit	
	A-3(a) Subcontractor Local Preference	
	A-4 Questionnaire Instructions	
	A-5 Acknowledgement of Addenda	
	A-6 Proposer's Disclosure of Subcontractors & Suppliers	
	A-7 General Insurance Requirements	
	A-9 Bid Bond	
	A-10 Performance Bond	
	A-11 Labor and Material Payment Bond	
	A-12 Surety Bond Program	
	A-14 References	



FOR PURCHASING OFFICE USE ONLY

☐

Responsive

☐

Non-Responsive

☐

Other:

Comment:
